65 YEARS

100% MADE IN NZ

GILTRAP

G-Max Feed Wagon

Operation & Parts Manual

Engineered Performance by Giltrap Ag

Part Number: 15545

Disclaimer

While every attempt has been made to ensure that information and diagrams in this manual are correct, Giltrap Engineering Limited will not be responsible for any damage or consequential loss arising out of misinterpretation or failure to follow recommended procedures; nor will it be liable for any damage caused by or arising out of modification or misuse of its product.

For parts or service enquiries, please use the applicable contacts on the previous page.

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Introduction

Thank you for purchasing a Giltrap product. *Giltrap Engineering Ltd* has enjoyed a long-standing success with their machinery. We would like you to enjoy the benefits of owning a Giltrap too. By following the guidelines laid out in this book, you will ensure trouble free, low maintenance operating for years.

Giltrap Engineering Ltd is a progressive company which continually strives to satisfy your needs, so we welcome any feedback which you can provide to help us improve our products and services and to ensure that they perform to your expectations. Any constructive comments about this operator's manual are also welcome.

Your machine has been designed to perform its task efficiently and with a minimum of maintenance. This handbook provides safety guidelines, instructions, maintenance requirements and parts listings. We recommend that you read the entire handbook, before operating the machine as this will enable you to take full advantage of your new machine's considerable potential.

Manual Evaluation

We update our operating manuals regularly. Your suggestions for improvement help us to create even more user friendly manuals. Send your suggestions by email to admin@giltrapag.co.nz.

Delivery and Warranty

Before you begin to use your machine, please check it to make sure there is no delivery damage. If damage is evident, contact the dealer who supplied the machine so that they can make the appropriate claims.
If you have any other queries, please contact your dealer or *Giltrap Engineering Ltd* (0800 80 GILTRAP).
All Giltrap products are covered by a 24-month warranty on parts and labour, subject to normal use.

Please fill in the details below for future reference.

Model:
Serial No:
Delivery Date:
Dealer:

Warranty

The Goods specified in the Price List as designed and supplied by Giltrap Engineering Ltd are warranted against faulty workmanship and defective materials for a period of 24 months from the date of purchase. In addition to the primary 24 month warranty for Giltrap products, there is a further 12 month structural warranty for the goods, against faulty workmanship and/or defective materials for structural items only. The structural warranty does not apply to electronics or component parts.

Such warranty is subject to the following conditions:

1. This warranty covers the repair or replacement of parts or machinery sold by the manufacturer and damaged as a result of the faulty workmanship or materials in such parts or machinery. It does not extend to any other loss or damage including consequential loss or damage or loss to other property or persons.

2. Without limiting the generality of paragraph 1 above, this warranty does not cover the following:
(a) Travel expenses.
(b) Damaged caused by accident, misuse or abuse.
(c) Damage to any goods which have been altered or modified by someone other than the manufacturer or its authorised agent.
(d) Damage or loss to the goods due to their unsuitability for any particular use or for using with any particular tractor except where such use or tractor had been specifically approved by the manufacturer.
(e) Damage or loss where the fitting and installation of the goods were not carried out by the manufacturer or its authorised dealer.

3. Procedure for recovery under warranty.
No loss or damage will be covered by this warranty unless the loss or damage is reported immediately to the dealer (who will contact the distributor who will advise whether it is covered by the warranty and undertake the necessary action).

No warranty repair work is to be undertaken prior to an order number being obtained.

This warranty shall be interpreted according to the laws of New Zealand and the parties agree to submit to the jurisdiction of the Courts of New Zealand.

Warranty Claims

If you wish to make a claim under warranty:

- Immediately stop using the machine.
- List details of the machine and damaged item including serial numbers and date of purchase.
- Consult with your Giltrap dealer (supplier) and have him forward your claim and the damaged item to Giltrap Engineering Ltd.

No warranty to be undertaken unless an order number is obtained from the Seller (Giltrap Engineering Ltd) prior to any work being done.

Serial Number Identification

Before ordering any parts, check the serial number and the delivery date of the machine and include this information with all orders.

If the Serial Number Plate is missing, the serial number will be stamped on the front of the drawbar.

GILTRAP
ENGINEERED PERFORMANCE

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Otorohanga
New Zealand

DRAWBAR VERTICAL RATING (kg): GROSS LADEN MASS (kg):

SERIAL No: MODEL No:

This plate is provided in compliance with the NZ Land Transport Heavy Vehicles 2004 rule, section 4.2. It is the operator's responsibility to ensure that this unit is fully compliant with all current legislation when it is used on public roads. **Removal of this plate invalidates certificate.**

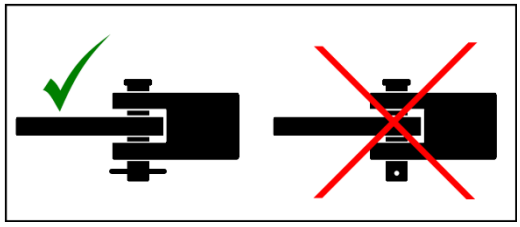
Serial number stamped onto chassis here

General Safety

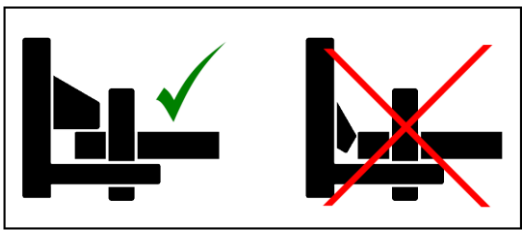
For the safety of others and yourself, please read and follow the precautions in this operator's manual. Pay particular attention to the following safety aspects of operating machinery.

Do not ride on or allow passengers on the machine.

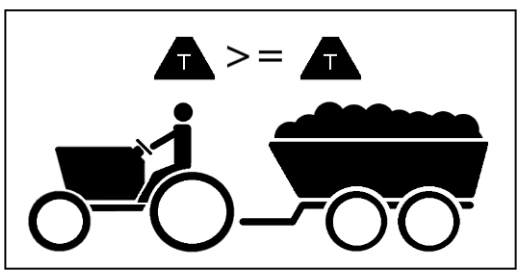
Always use a recognised hitch pin with a safety clip to hook trailed implements on behind the tractor.



Always ensure when using a quick hitch that the locking tab has come out and is in the locked position before moving.



When pulling trailed implements or loads, be sure to use a tractor of greater or equal weight than the combined weight of the load and trailer.



Carry a suitable fire extinguisher.

A fire can ignite under certain conditions, so please take the following precautions:

After running your machine for a short time, check for defective bearings. A faulty bearing can become very hot, eventually discolouring, requiring immediate replacement.

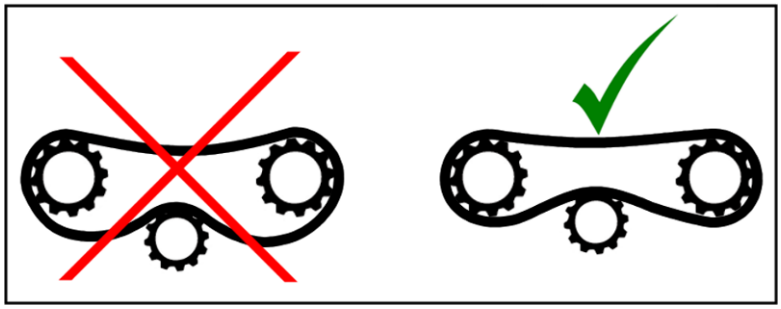
Do not allow combustible material to accumulate inside guards or around rollers and other moving parts.

If your machine becomes blocked, stop immediately and remove the obstruction.

Be careful when operating in hot or dry conditions or on extreme fire risk days.

Never operate your machine without the safety guards in place.

All chains should be properly adjusted and replaced when necessary.



Release all hydraulic pressure from implements before commencing service work. Never look for suspected oil leaks with your hands or body - use a piece of cardboard instead.
Any fluid that penetrates the skin will have to be removed immediately by a medical expert. Seek specialist advice on this type of injury.

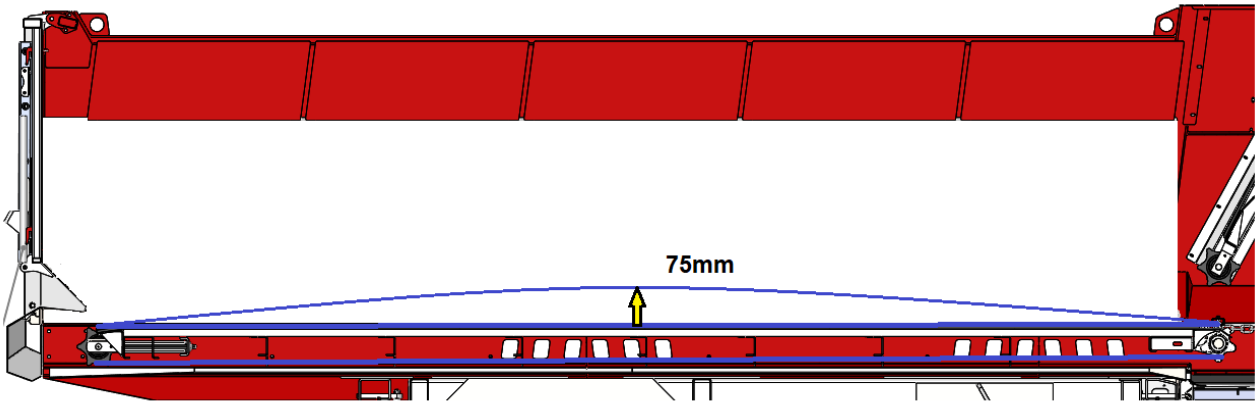
Never attempt to unblock equipment while it is still operating.
Always disengage power take-off, hydraulics and shut down engine before removing materials, checking or servicing.
Failure to follow these precautions is likely to result in serious injury.

Wear proper protective clothing. Loose attire can easily be snagged by rotating machinery resulting in serious injury or death.

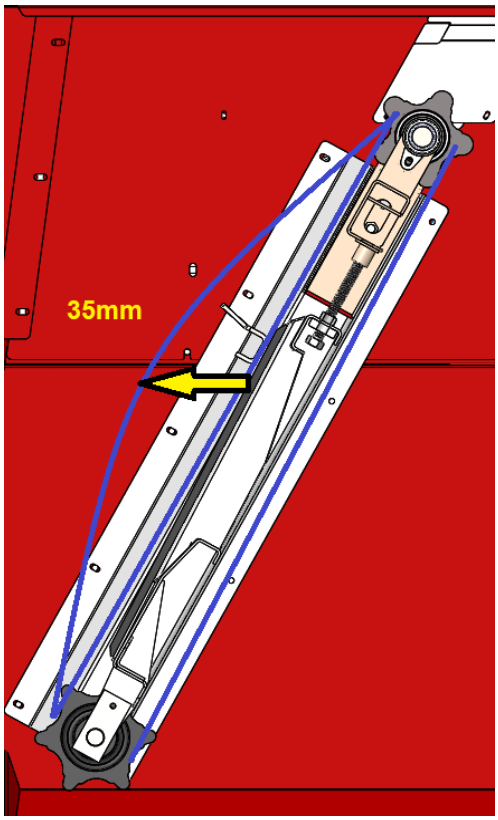
Pre-Service Guidelines & Settings

Prior to delivering your machine, your dealer should have completed a pre-delivery check.
It is beneficial to check the following points before using the machine for the first time, after the first few loads, then weekly.

CHECK FLOOR CHAIN TENSION. A simple check is to stand in the bin and exert a strong pull at the centre of the floor. There should be approximately **75mm (3")** of vertical movement in this area.



CHECK ELEVATOR CHAIN TENSION. Exert a pull at the mid-point of the elevator face. If necessary, adjust for approximately **35mm (1-1/2")** of movement from rest towards the rear of the wagon.



- CHECK ALL WHEEL NUTS ARE SUFFICIENTLY TIGHT.

Wheel Nut Recommended Torque Settings	
M18 Stud	200 ft/lbs or 270Nm
M20 Stud	280 ft/lbs or 380Nm
M22 Stud	330 ft/lbs or 450Nm

- CHECK ALL TYRE PRESSURES ARE CORRECT.

Recommended Tyre Pressures	
11.5/80-15.3	58psi 4.0 bar
400/60-15.5	50psi 3.5 bar
15.0/70-18	45psi 3.1 bar
400/55-22.5	46psi 3.2 bar
500/45-22.5	35psi 2.4 bar
500/60-22.5	35psi 2.4 bar
560/45R22.5	58psi 4.0 bar
560/60R22.5	58psi 4.0 bar
650/55R26.5	58psi 4.0 bar

- CHECK ALL AXLE MOUNTING BOLTS AND NUTS ARE SUFFICIENTLY TIGHT.

Axle Mounting Bolt Recommended Torque Settings	
M16	180 ft/lbs or 245Nm
M20	355 ft/lbs or 480Nm

- THE SIDE CONVEYOR BELT should be checked for alignment and tension, and adjusted if necessary to ensure it is tracking correctly.

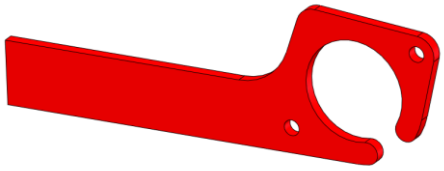
- THERE ARE SEVERAL GREASE POINTS on all Giltrap feeders. Check the yellow label on the side of your machine to see how many grease points there are. You should fully grease everything before running it for the first time. See greasing and lubrication section in manual.

- CHECK AND RETIGHTEN WHEEL NUTS AFTER:
    - First use
    - First laden journey
    - The first 50 hours of use and every 50 hours thereafter

Installation

Connect drawbar to tractor. The hydraulic jack (where fitted) may be use as quick hitch foot
Retract hydraulic jack or wind up jack handle and stow jack

Connect hydraulic hoses
Connect brake hose (if equipped)
Connect lights plug
Connect Electric control system plug (if equipped)

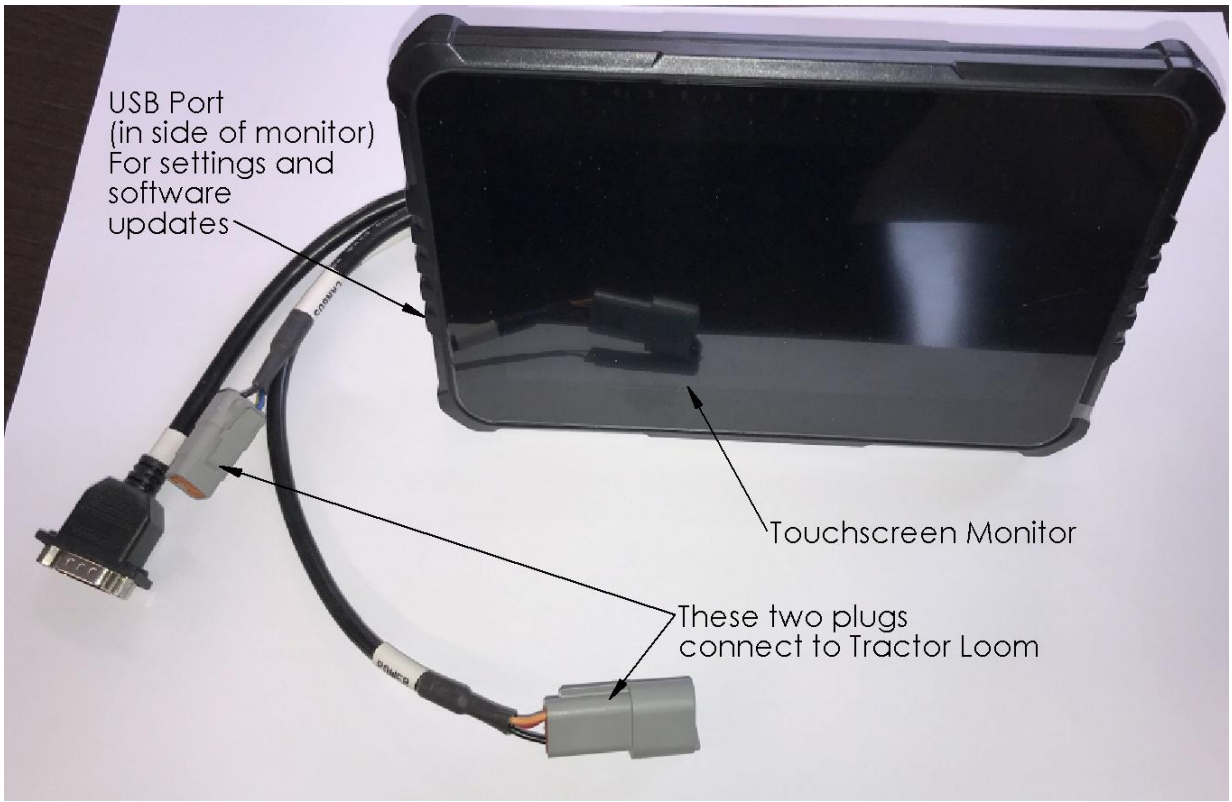


Use supplied plate to mount loom plug to tractor. Modify and bolt in place as necessary.

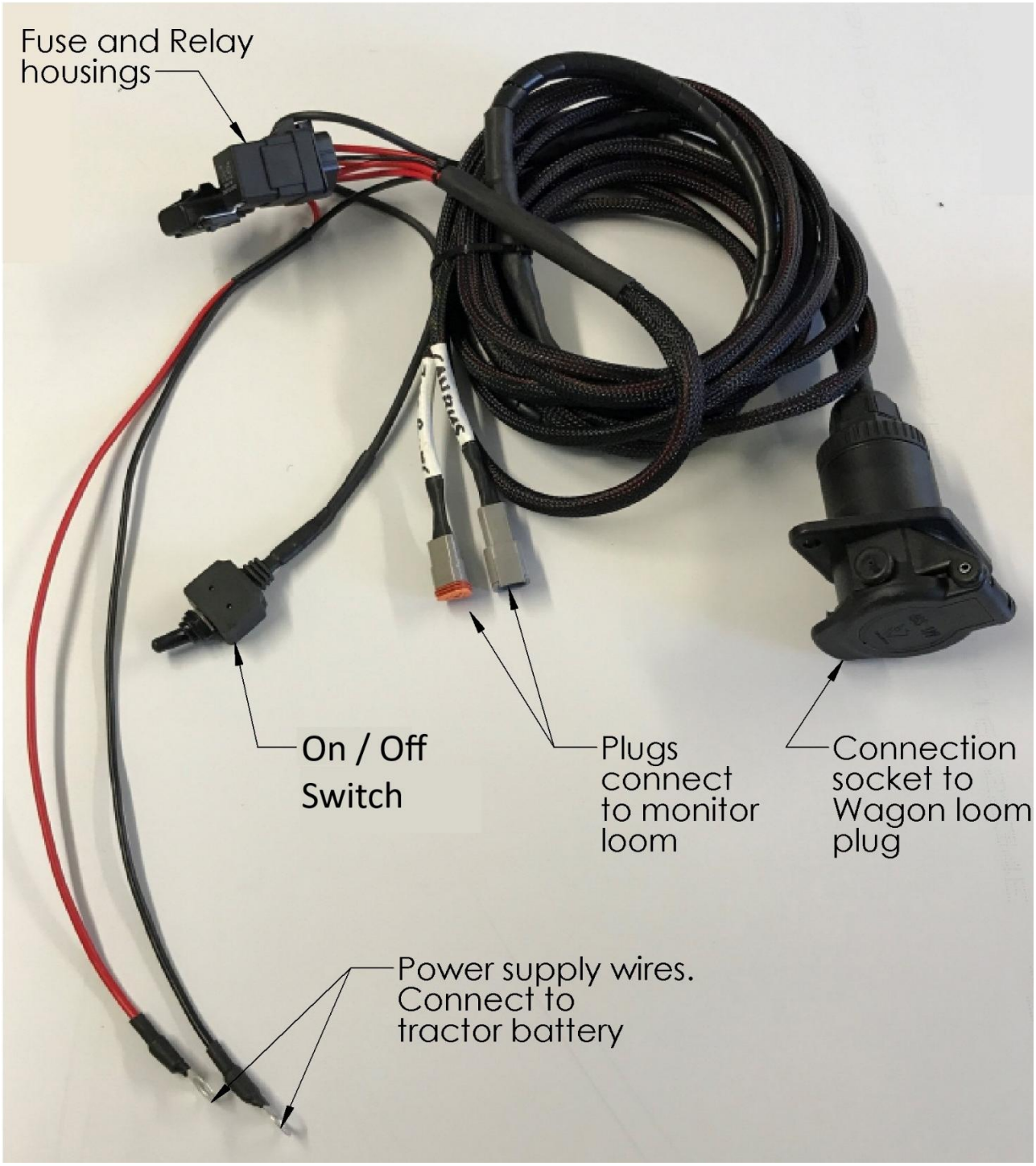
Electric Control Installation (where equipped)

Fit monitor in cab. Power supply should be connected directly to tractor battery. It is recommended to fix the connection socket to the tractor – this will allow auto release mechanism to work.

In-Cab Touchscreen Monitor Connections



Tractor loom Connections



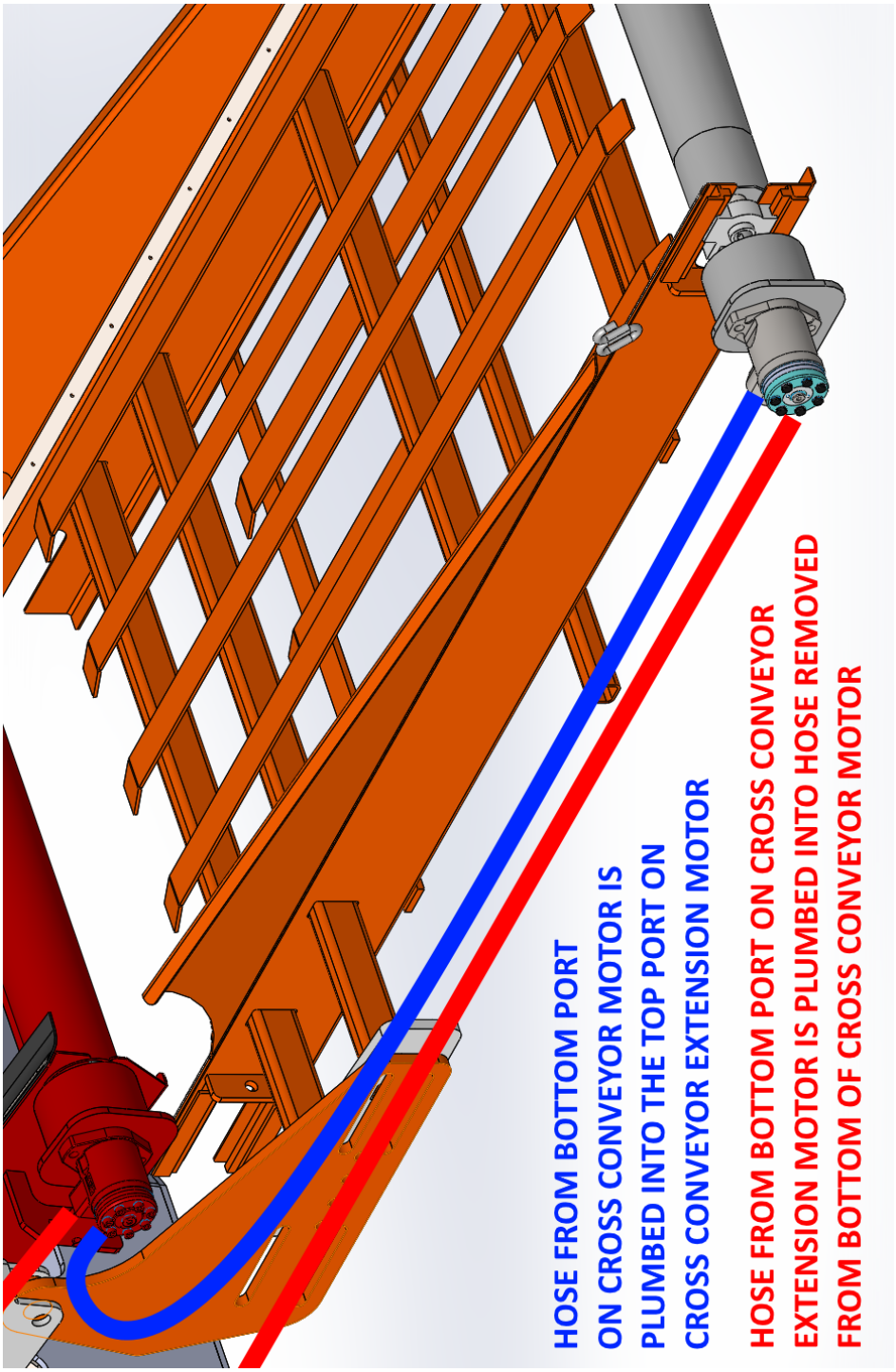
Connect Wagon loom plug to Tractor loom socket.

Note: Wagons fitted with Phone/Device Scales display use a different Tractor loom – see 'Wireless Scales with Phone/Device Scales Display' section.

DO NOT TOGGLE ON / OFF SWITCH IN QUICK SUCCESSION

Heavy Duty Cross Conveyor Extension Hydraulic Connection

1. Remove hose from BOTTOM port on cross conveyor motor
2. Connect hose between TOP port on the extension motor and BOTTOM port on cross conveyor motor
3. Connect hose between BOTTOM port on extension motor and hose that was disconnected from the BOTTOM port on the cross conveyor motor.



Operation

Loading the Wagon

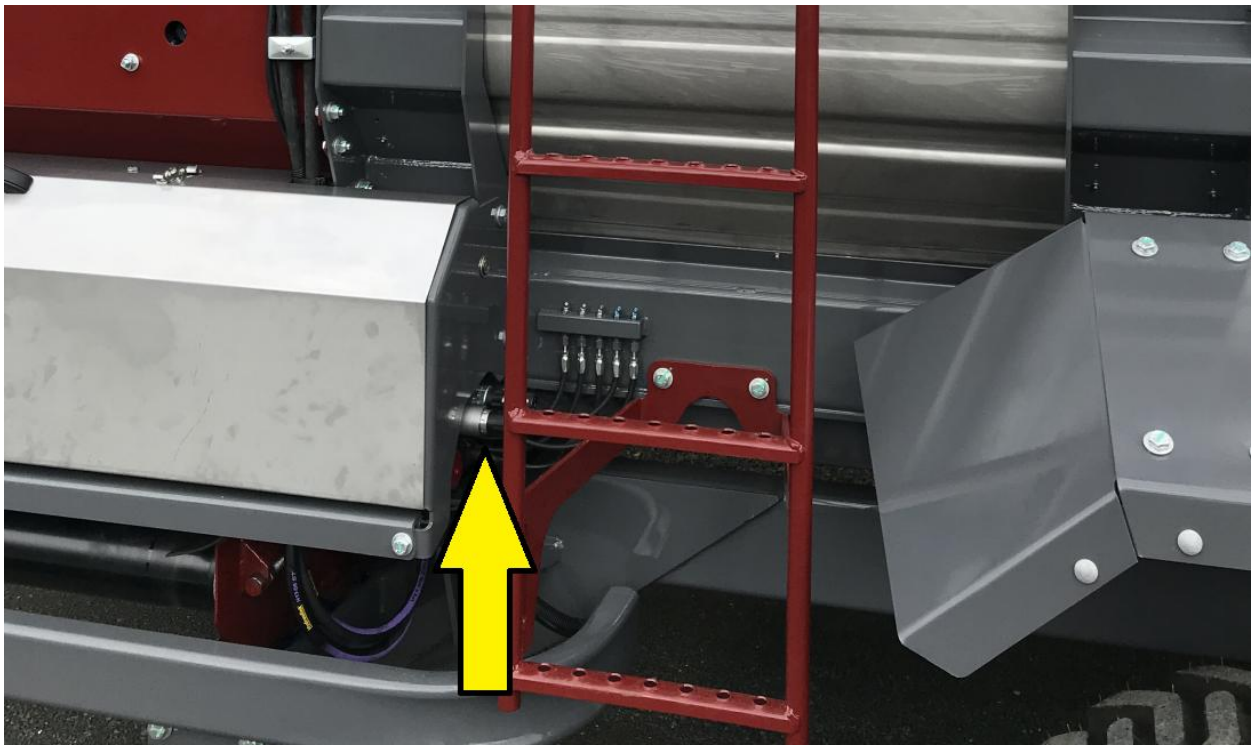
Load the wagon from the rear to the front. When difficult material has to be handled, eg long, wet silage, load the material in sections. It may sometimes be necessary to reverse the load a short distance and then bring it forward again to present a new face to the elevator. Note: reverse the floor by pushing the hydraulic lever on your tractor in the opposite direction.

Feeding Out

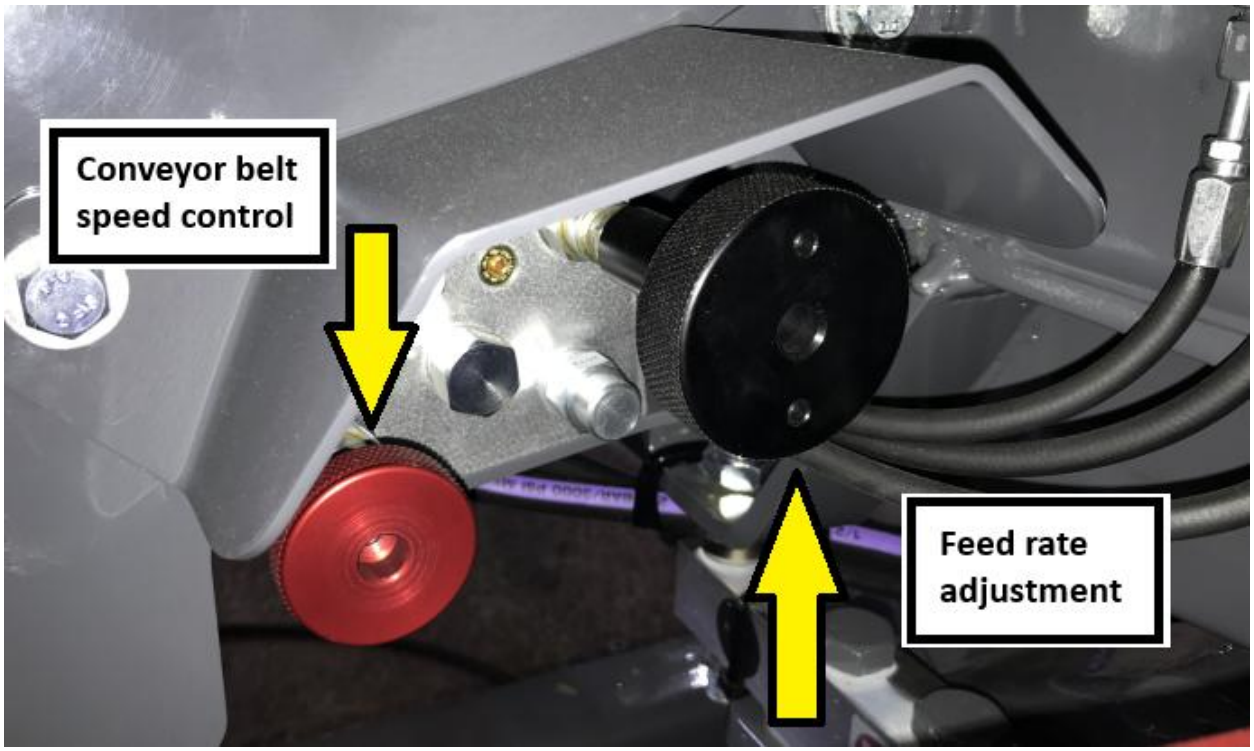
Best feeding out conditions occur when the wagon is freshly loaded. If left loaded overnight, the material can settle into a hard mass that becomes difficult to feed out. The practice of leaving a load in the machine for hours before feeding out will also accelerate the deterioration of the wagon because of the acidic nature of the material.

Manual Control Operation

Where electronic control is not fitted, feeding is controlled by manual adjustment of the hydraulic valve block. The hydraulic block is located under the stainless steel cover on the left side of the wagon. The two adjustments for the block may be accessed through the cut out in the back plate.



Adjustment Knobs (Manual control):



Conveyor Belt Speed Control

Belt speed is adjusted using the red knob shown. The conveyor belt takes priority oil flow.

Turning the valve clockwise increases the conveyor belt speed.

Feed-Out Rate Control

Feed Out rate is adjusted using the black knob shown. This adjusts the load pressure that the valve uses to start and stop the floor automatically. When you have adjusted the feed-out rate to your requirements, the valve will maintain an even flow of material to the elevator by automatically adjusting the floor speed. As the wagon empties the floor will automatically speed up to its maximum speed.

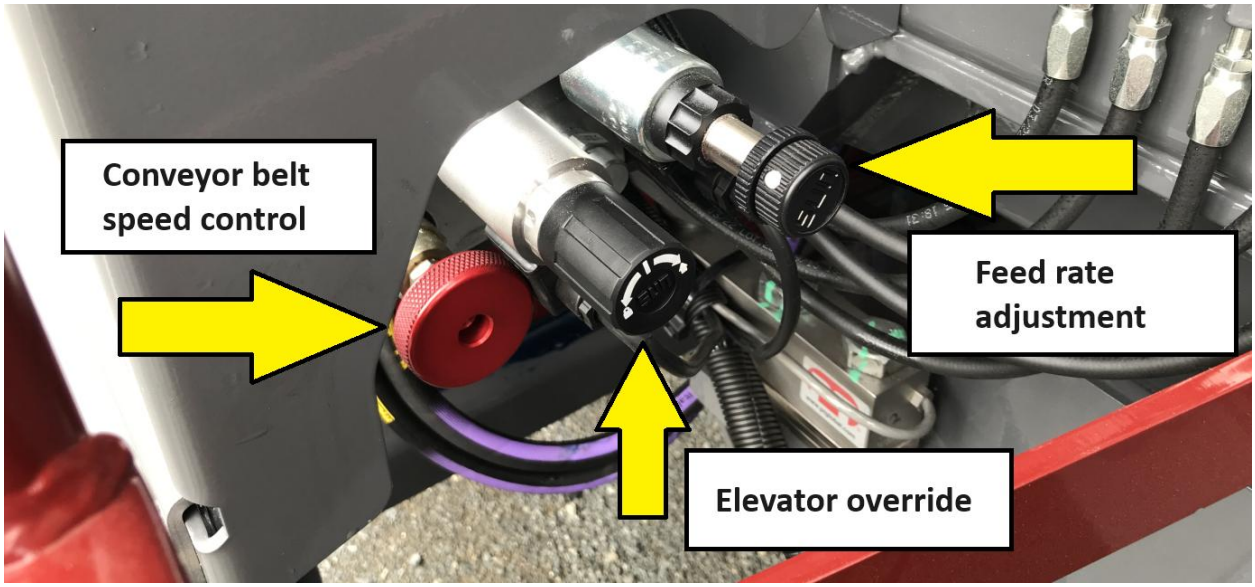
Turning the valve clockwise increases the feed out rate.

If the elevator chain stalls from overloading, reduce this setting.

To Feed Out, engage tractor hydraulics and drive forward. Ensure hydraulic flow is sufficient to cause the elevator to turn smoothly (30-60 litres per minute at full working pressure: 2500 - 2800psi (170 – 190 bar)).

Manual Hydraulic Override of Electronic system

It may sometimes be necessary to over-ride the electronic control system and use the wagon in manual mode. This can be done by adjusting the control knobs on the hydraulic block, located on the left-hand side of the wagon, at rear of the stainless-steel covered enclosure.



- The Conveyor belt speed control Red knob controls conveyor belt speed.

- The Elevator over-ride (centre black) knob is a ‘spring to centre’ type when used in electronic control mode. **To over-ride the elevator electronic control, turn this knob anti-clockwise until it ‘clicks’ and holds its’ position**.

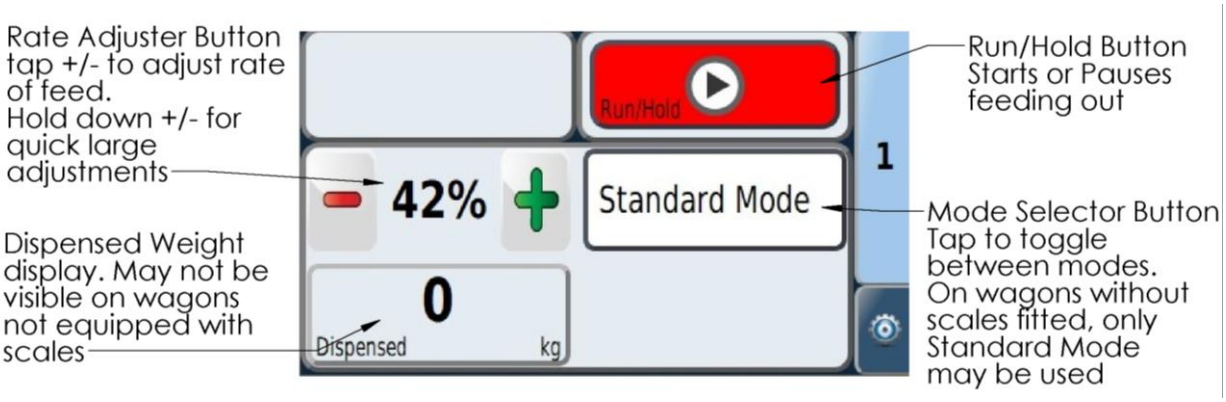
- The Floor over-ride black knob is a rotary adjustment type. For electronic control this knob must be turned anti-clockwise all the way out. **To over-ride electronic floor rate control, turn this knob clockwise until the floor moves when the hydraulics are engaged.** The feed rate may then be adjusted to suit by screwing the knob in (higher rate) or out (lower rate).

Electronic Control Operation

Turn on the in-cab touchscreen monitor using the switch on the Tractor loom.
Engage the tractor hydraulics. The Cross conveyor belt will run continuously.
Cross conveyor belt speed is adjusted as per manual adjustments above

Rate Control

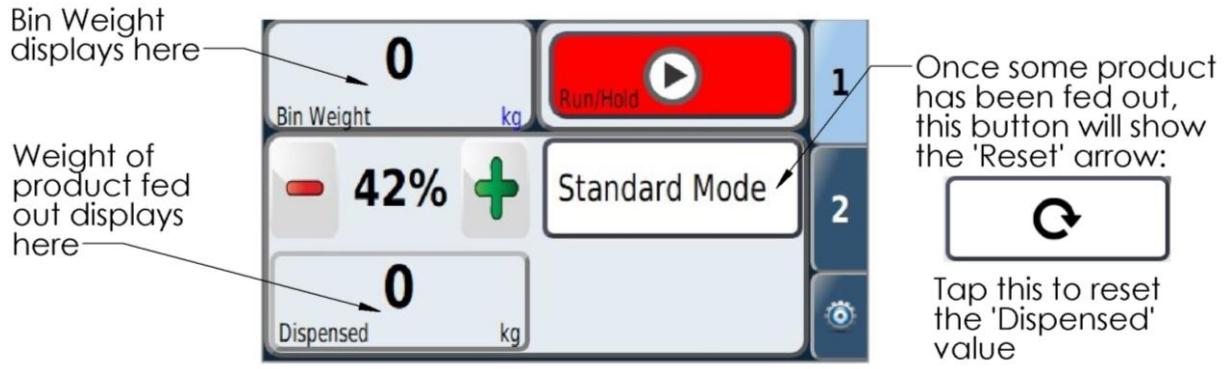
On wagons equipped with electronic rate control, the feed rate may be adjusted from the tractor cab. Once hydraulics are engaged, feeding out is also turned on and off using the touchscreen.



Rate Control with Scales Fitted

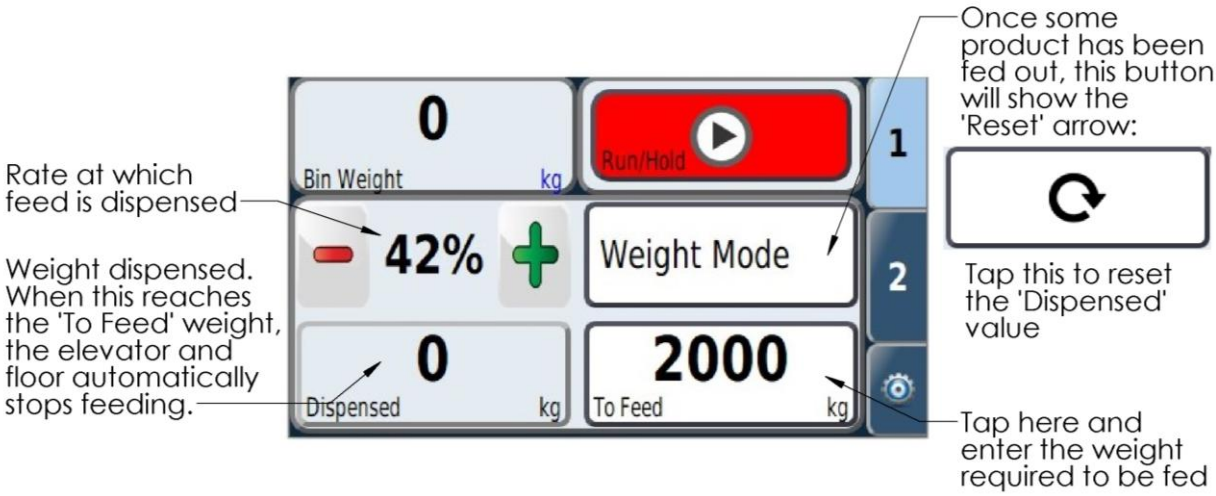
Standard Mode

With Scales fitted, the weight of product in the wagon and the amount dispensed are displayed.



Weight Mode

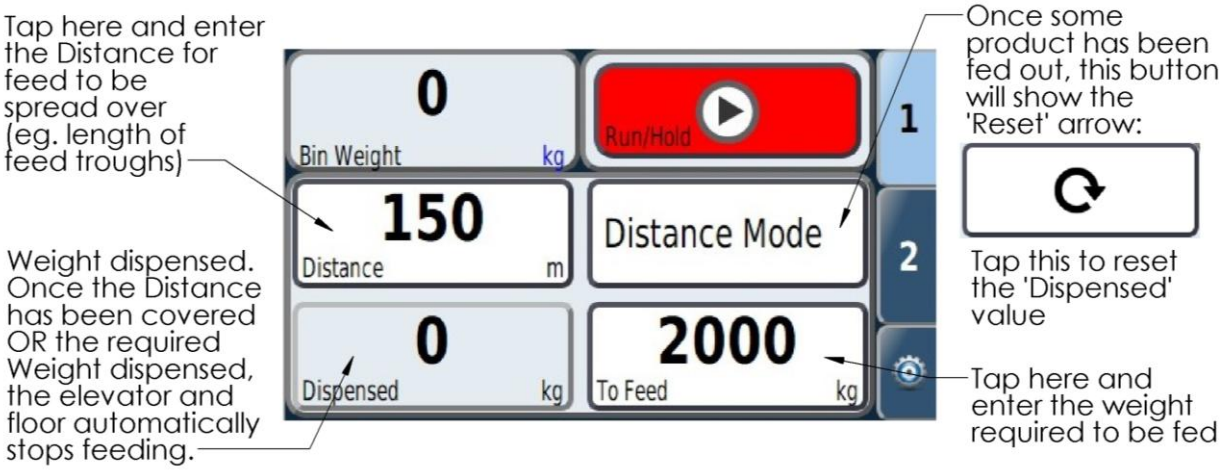
With Scales fitted, Weight mode allows a pre-set amount of feed to be dispensed before the wagon automatically stops feeding



Rate Control with Scales and Wheel Speed Sensor Fitted

Distance Mode

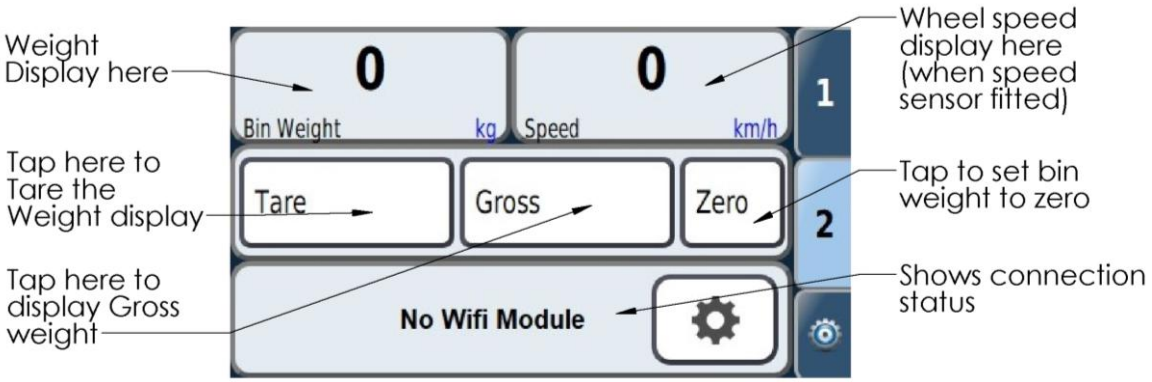
With Scales and a Wheel speed sensor fitted, Distance mode allows a pre-set amount of feed to be dispensed over a pre-set distance before the wagon automatically stops feeding. This is useful when feeding into troughs or to ensure a sufficiently long feed-row in a paddock.



For fine tuning adjustment see ‘Technical’ section.

Wireless Scales

When equipped with Load cells, the bin weight may be monitored in real time, even with the wagon disconnected from the tractor. The system uses its own built-in WiFi to communicate.



Note: when disconnected from the tractor, the system:

- cannot operate feeding controls
- cannot set bin weight to zero

Both these tasks require the electrical plug and socket to be connected. The ‘Wagon Active’ and green socket symbol will be displayed when the wagon is plugged in to the in-cab monitor:

When the electrical plug and socket are disconnected, the Wifi will become active for displaying weight:

The wagon may now be loaded by the towing tractor, with live bin weight readout in the cab.

NOTE: If the tractor goes out of range of the Wifi, or if the wagon control box times out and turns off, the Wifi symbol will turn Red, indicated a broken connection. To reconnect, either move the tractor closer to the wagon, or press the Standby Button on the control box.

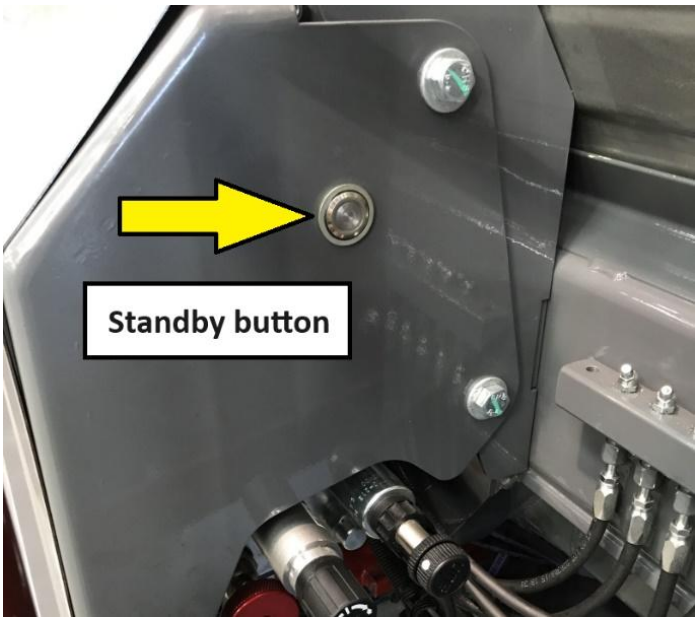
For Weight readout damping adjustment see ‘Technical’ section.

Wagon Standby Button

When the electrical plug and socket to the tractor are disconnected, the wagon control box remains on for a set length of time to allow for wireless scales display. Once time is up, the control box will turn off to conserve on-board battery power.

To turn the unit back on, either plug in the tractor electrical plug and socket, or press the ‘Standby’ button located above the hydraulic valve controls.

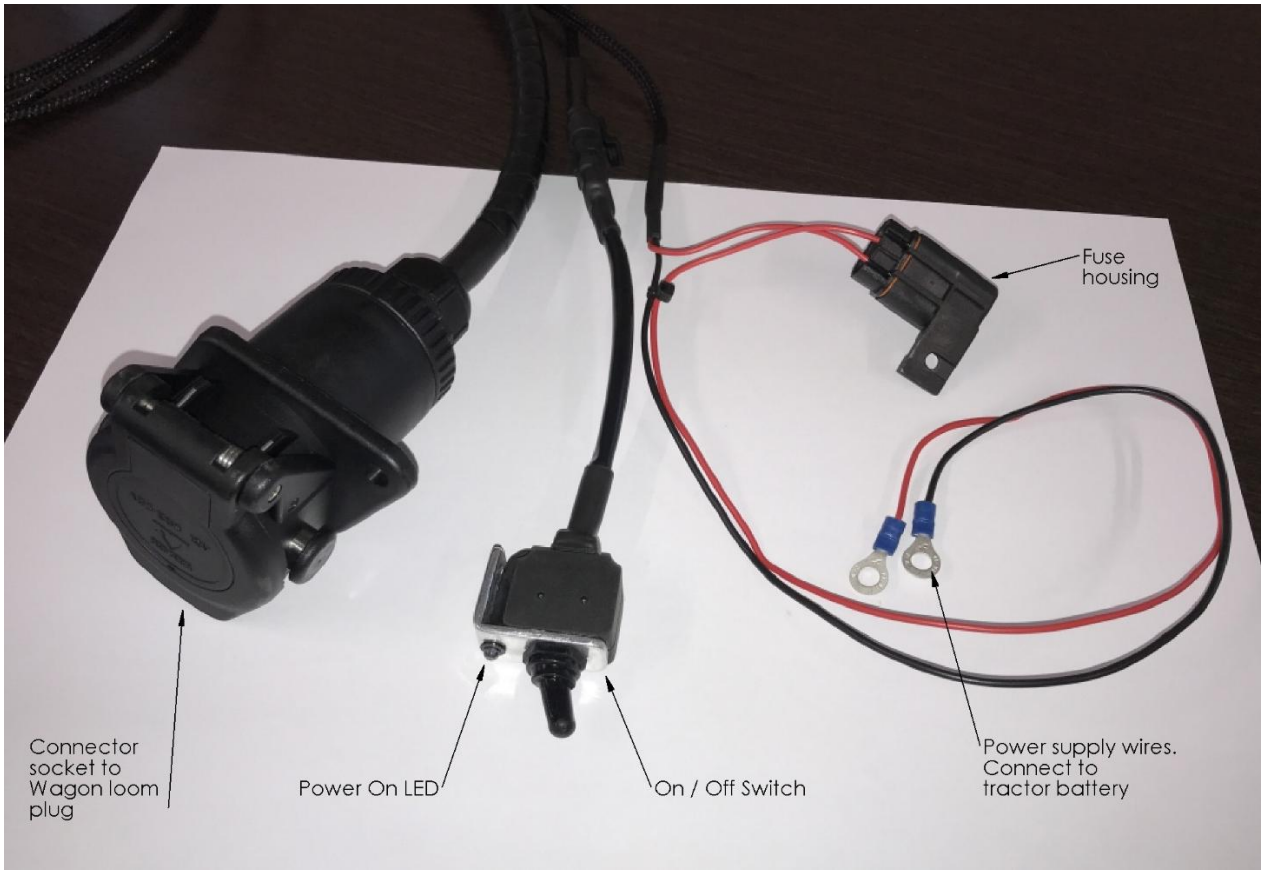
For Standby time adjustment see ‘Technical’ section.



DISCONNECT OR ISOLATE WAGON BATTERY IF PARKING UP FOR MORE THAN TWO WEEKS.

Wireless Scales with Phone/Device Scales Display

Wagons fitted with this option use the simplified Tractor loom below:



The wireless scales need to be connected to the tractor regularly to keep the on-board battery charged. The Switch needs to be turned On for charging to occur.

Most Devices capable of receiving WiFi can be used as a readout for the Wagon scales.

The Control System on the wagon needs to be turned On in order for scales to work. Either connect the tractor cable, or press the ‘Standby’ button on the wagon.

The QR Code giving access to the WiFi signal is displayed on the outside of the Control System enclosure under the stainless steel cover on the left side of the wagon. Follow the steps below to connect.

Connecting your Device to Wagon Scales WiFi

First Connect to the Wagons' WiFi signal

1. On your device ensure your WiFi is enabled. Ensure both WiFi Calling and mobile data is off. (This may not be necessary in some devices).

2. Select WiFi signal: Connect to LC-(unique ID code) **Enter Password: 12345678** Disregard any warning that you are connected BUT have no internet – this is normal.

Then Navigate to the Scales webpage

3. Select your QR reader app. This may be built into the camera app.Hover over the QR code sticker on the Enclosure and it should bring up a URL of 192.168.4.1

4. For Android, select prefered web browser.

5. Some devices will still search for the Google site. If this is the case a new browser tab needs to be opened. In the address bar type in the following IP address: **192.168.4.1**

6. The Scales display web page will load and it should look like this:

7. Tapping Tare or Gross will change the weight display. Note this will affect all connected devices.

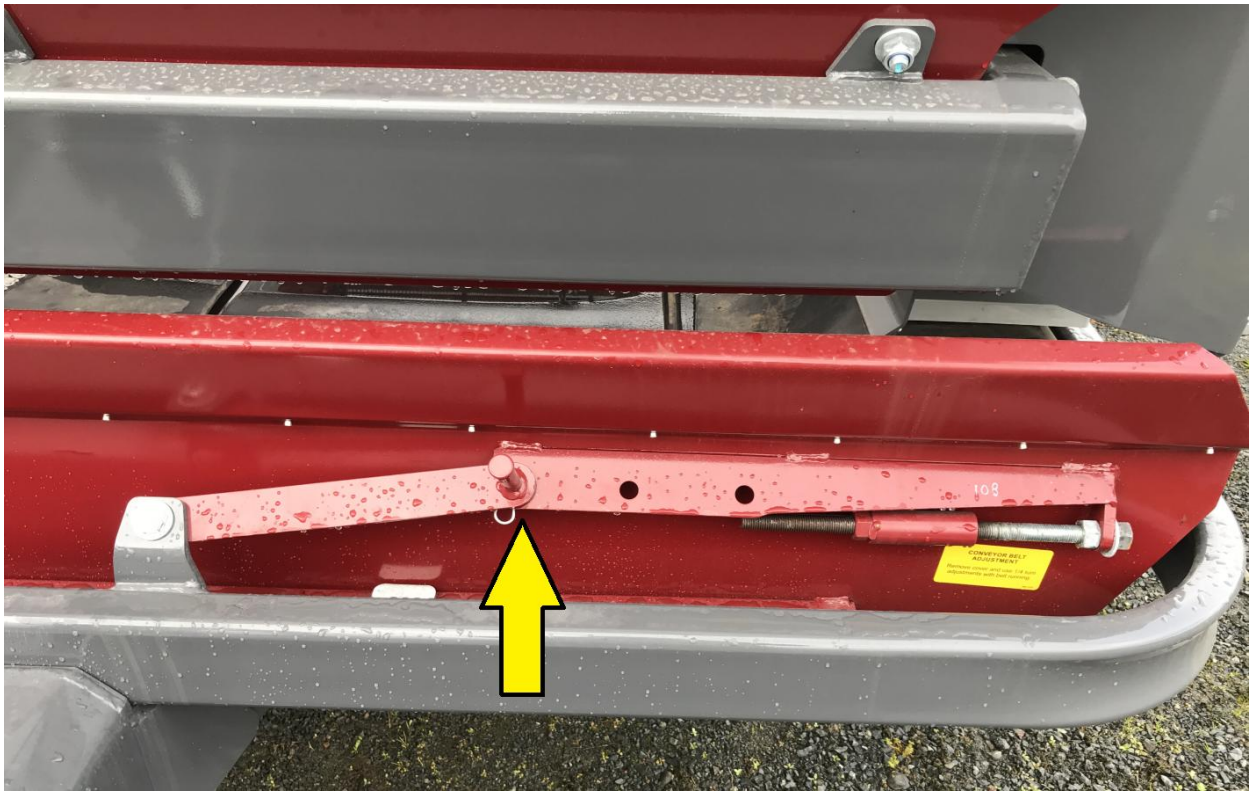
8. A shortcut to the display page may be added to the Devices Home screen for easy future connection. To add the shortcut:

Iphone: Tap then Add to Home Screen

Android: Tap then Add to home screen then Install

9. Note: 'Zero Bin Weight' should only be tapped when the Wagon is empty. This function erases all previous weight data and resets the Scales display.

Cross Conveyor Position Adjustment



An important feature of the G-MAX series wagons is the ability to adjust the position of the cross conveyer assembly relative to the chassis. The cross-conveyor unit may be set to one of three positions, each giving different extension out the side.

It may be necessary to loosen the 2 clamps at the front of the machine.

Remove the retaining clip, withdraw the locating pin, slide the unit manually to suit, locate the pin in a hole, and re-fit the retaining clip underneath the locating pin.

If the optional ‘side-shift’ ram is fitted, bed movement can be done from the tractor seat via hydraulics.

Side Shift Operation

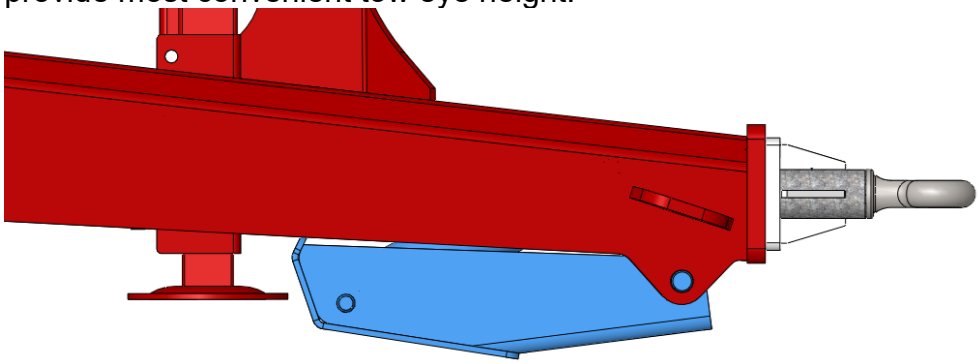
The side shift hydraulic ram is located underneath the cross conveyor. Actuating it out allows 300mm of sideways extension to feed into troughs, along fence lines, etc.

To operate, connect the two side shift hydraulic hoses to the tractor and adjust cross conveyor position using the tractor hydraulics.

Ensure cross conveyor bed is retracted before driving through narrow areas such as gateways, to avoid potential damage.

Hydraulic Jack Operation

The hydraulic jack (when fitted) is located underneath the front of the drawbar. In its' folded up position it may be used as a Quick Hitch foot. The height may be adjusted to provide most convenient tow eye height.



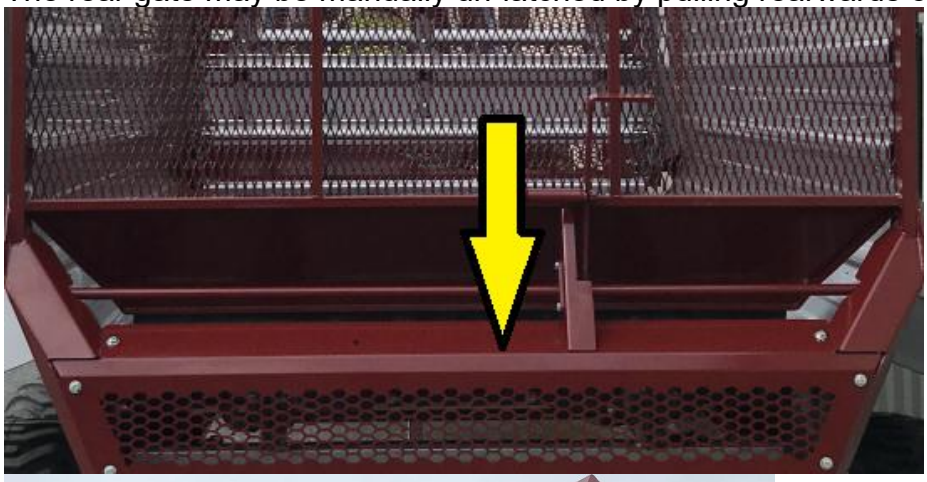
To operate, connect the two jack hydraulic hoses to the tractor. Standing away from the drawbar (in case of movement), turn the on/off lever to point along the hose (On position). The jack height may now be adjusted using the tractor hydraulics.

When disconnecting the wagon, set the jack height as necessary and turn the on/off lever to 'Off' before disconnecting hoses.

Upon initial installation, air may be present in the hydraulic jack ram. This may be purged by cycling the jack from fully up to fully down a number of times.

Rear Gate Operation

The rear gate may be manually un-latched by pulling rearwards on the handle:



A stay is fitted which locates in the gate to hold it open for access.

Note the gate will automatically open when the main floor is reversed and product pushes against the gate. Afterwards the gate must be manually re-latched.

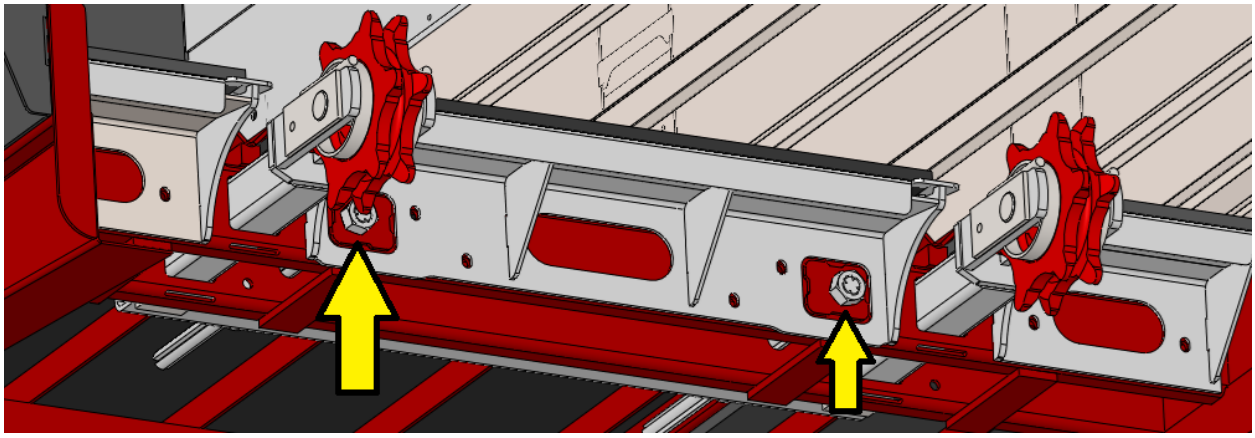
To re-latch the gate, hold the handle down while pushing the gate firmly against the back of the wagon. Then push the handle upwards until it engages through the ball catch.

DO NOT ENTER WHEN WAGON IS IN OPERATION. IT IS RECOMMENDEDTHE TRACTOR IS SWITCHED OFF AND KEYS REMOVED BEFORE ENTERING THE WAGON

Maintenance

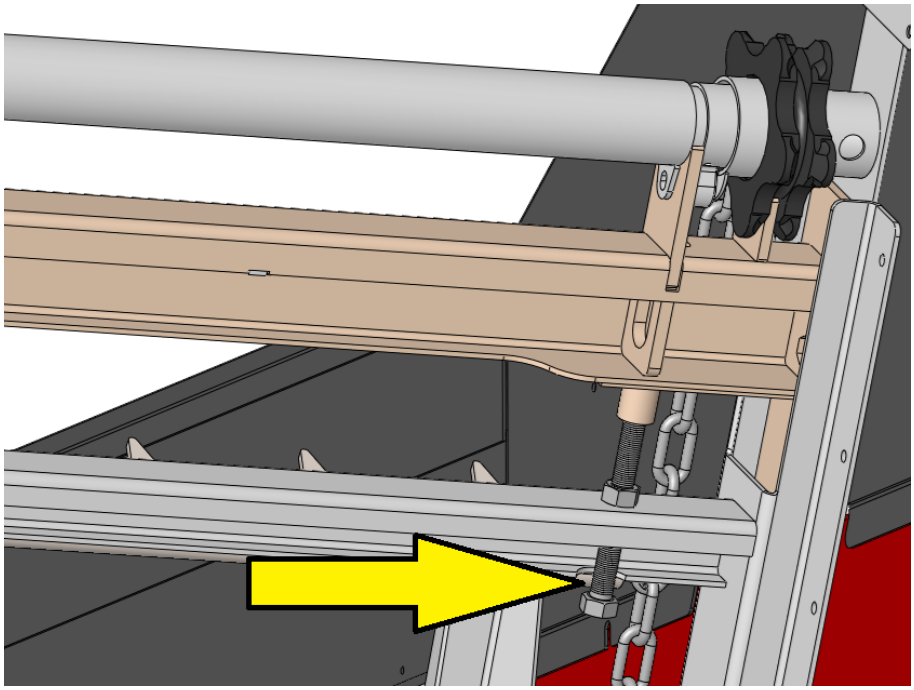
Floor Chain tension

Adjust floor chain tension as per pre-service guidelines on page 10. The adjusters are located at the rear of the machine near the sprockets. Undo the locknut (where fitted) before making adjustment. Adjust both sides approximately evenly.



Elevator Chain tension

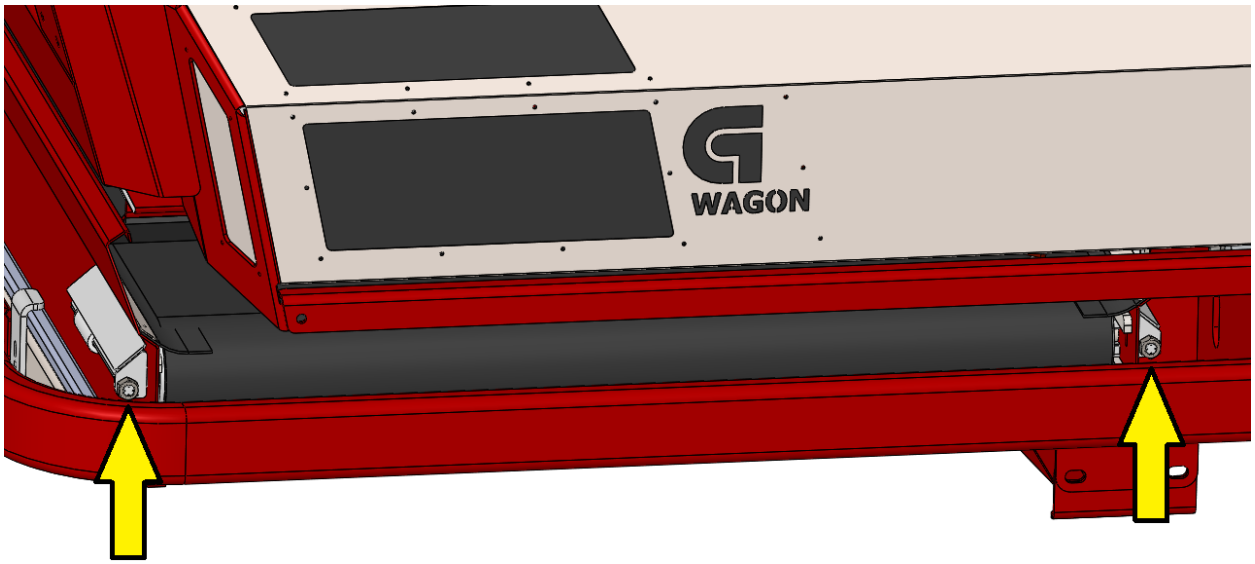
Adjust elevator chain tension as per pre-service guidelines on page 10. The adjusters are located under the upper elevator sprockets. Undo the locknut (where fitted) before making adjustment. Adjust both sides approximately evenly.



Cross Conveyor Belt tracking

The side delivery belt is set up and adjusted at the factory before delivery; however it is usual after a period of time to notice the belt running off centre. This is normal and is caused by belt stretch or movement under load.

The adjusters are located on the left hand end of the cross conveyor unit. First, loosen the lock nut each side. Turn the bolt heads ¼ turn at a time with the conveyor running, until the belt runs true again. You should either loosen one adjuster slightly, or tighten the other, or a combination of both. Tighten lock nuts once adjusted.



All adjustments must be made with wagon running, preferably empty. Only adjust ¼ of a turn at a time and run for at least 2 minutes between adjustments. THE BELT WILL RUN TO THE LOOSE SIDE.

DO NOT OVERTIGHTEN - THIS WILL CAUSE A POWER LOSS!

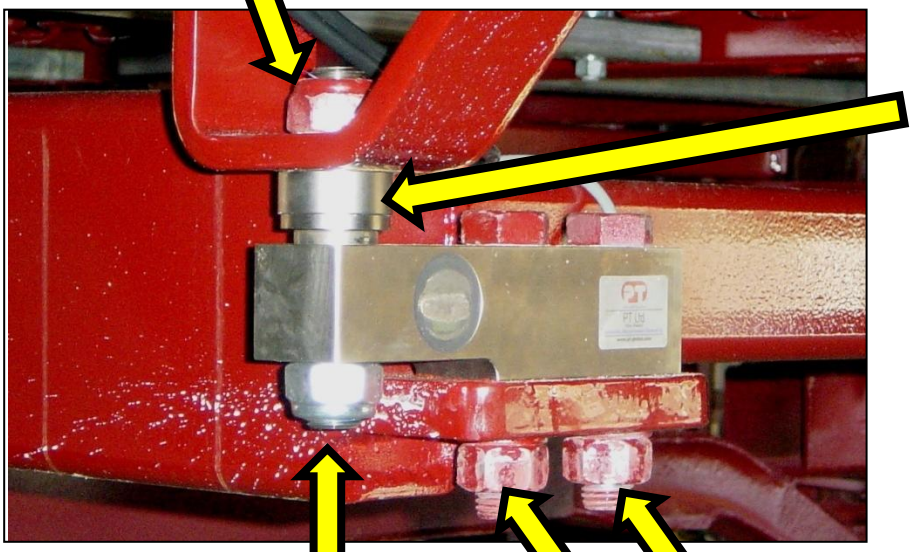
Rear Gate Crash Lock Adjustment

The load setting of the crash lock system can be adjusted by removing the end cap fitting which encloses a compression spring that applies pressure to the ball bearing that locks the handle in place. The adjustment is made via a threaded adjuster within the spring assembly. Replace the end cap after adjusting.

Load Cell Maintenance

Clean mud and material buildup off all Load cells regularly as necessary.

1. Back off this top Nylock nut.
2. Lubricate Spherical washer with CRC or WD40
3. Tighten this Nylock nut to 200Nm



Spherical washer. Upper and Lower halfs.

Tighten this nut to 400Nm

Tighten these two bolts to 400Nm

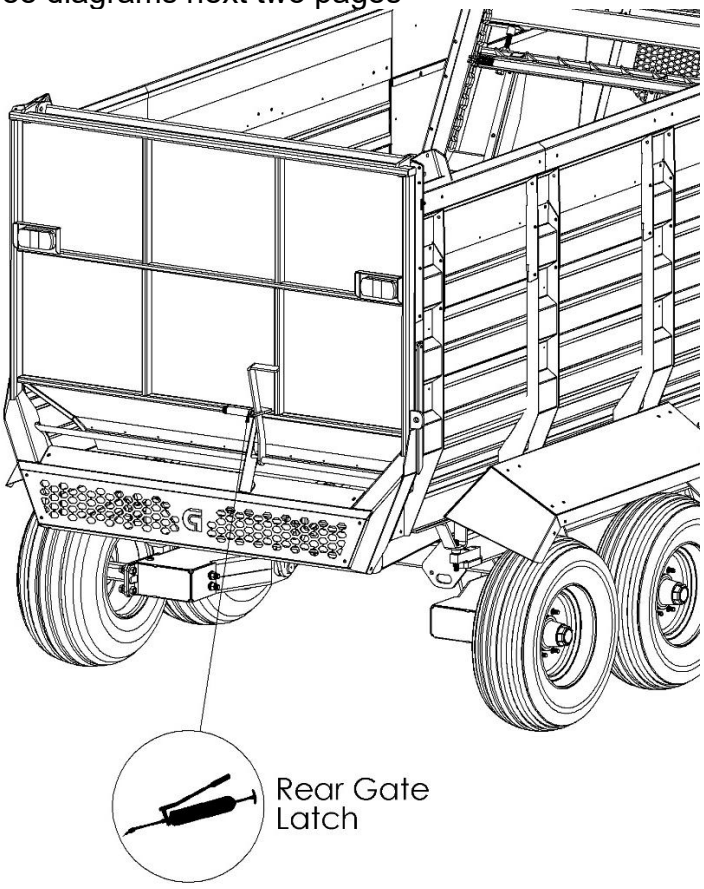
Check wire is not broken, squashed or damaged.

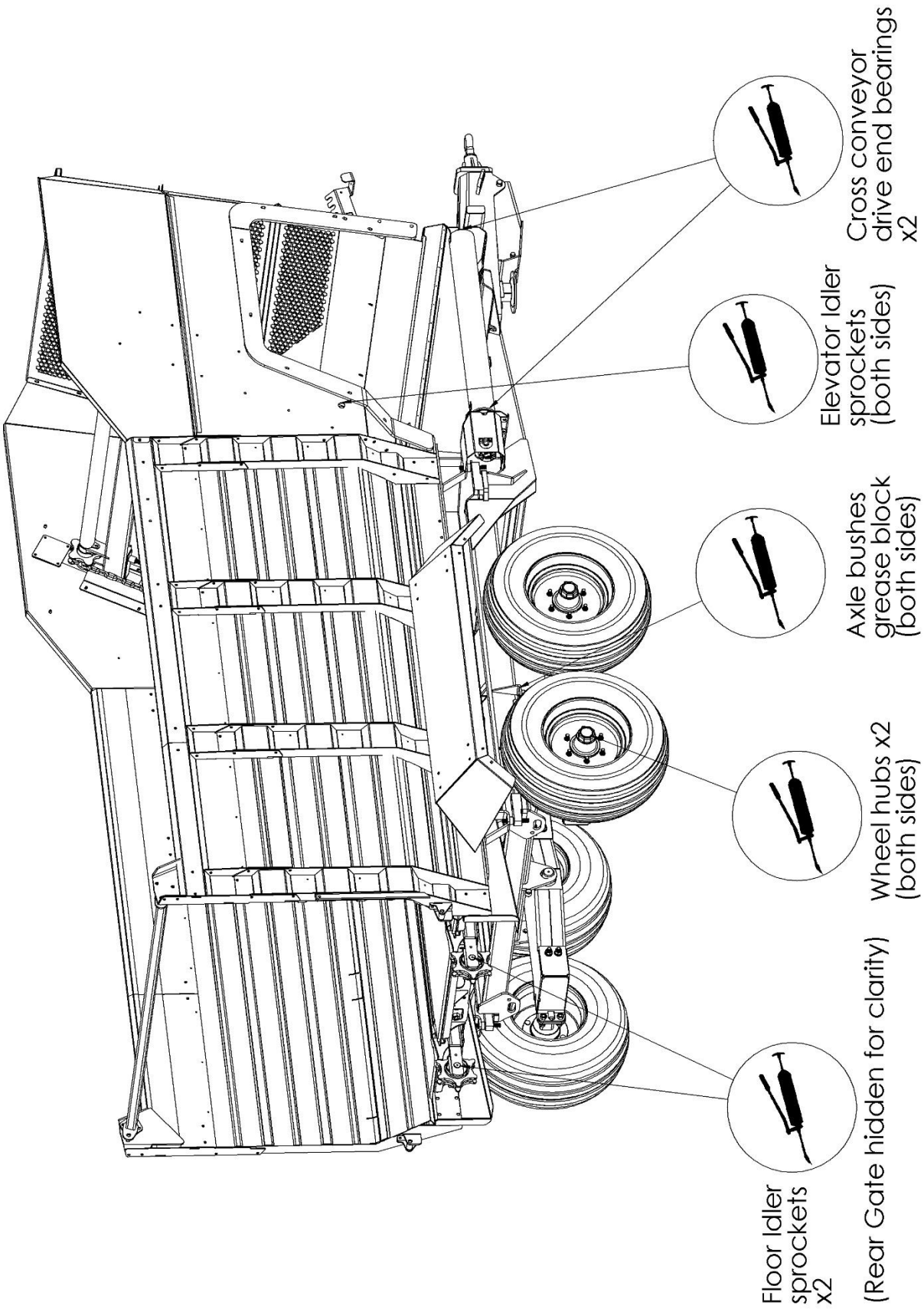
Greasing and Lubrication

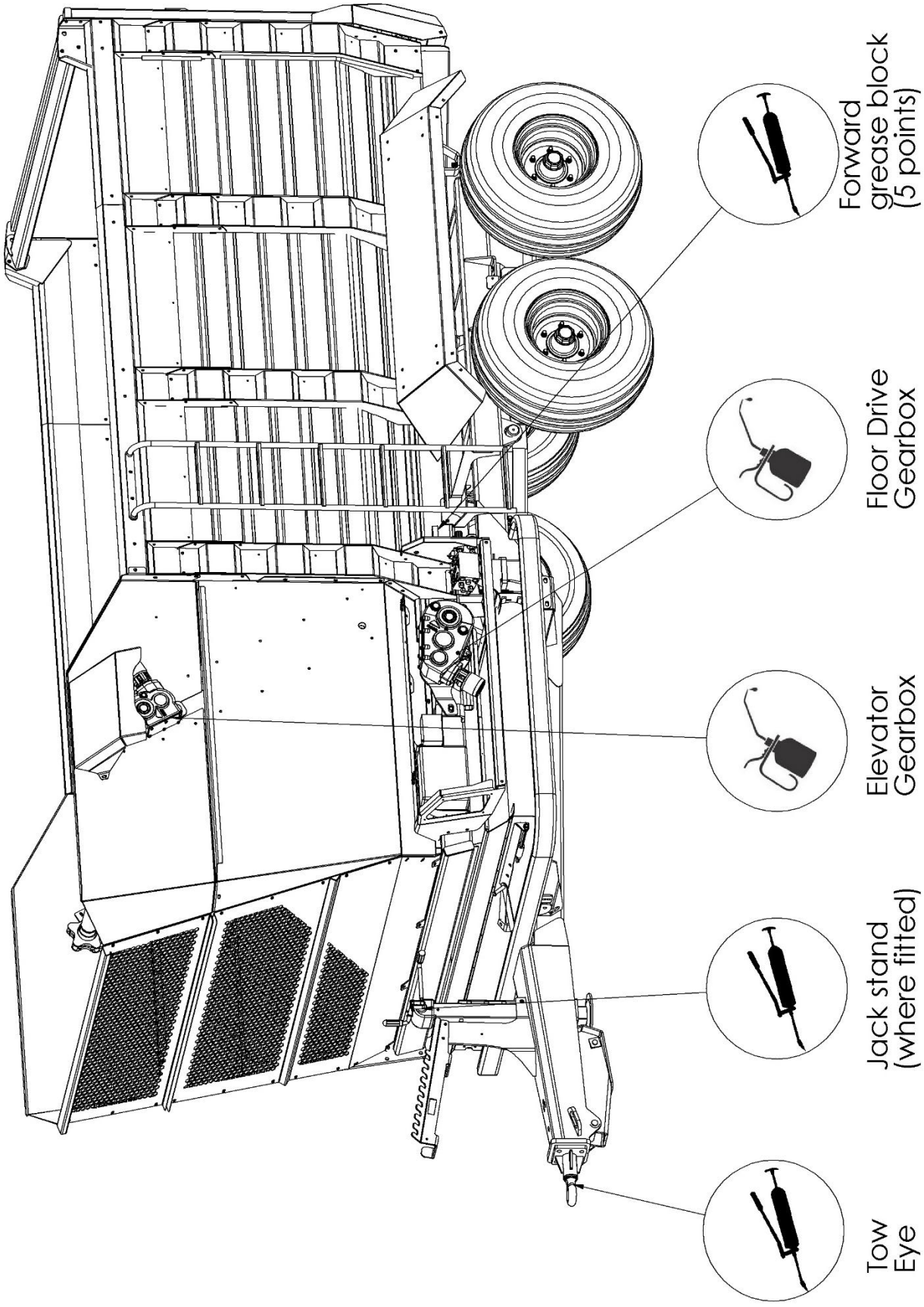
Grease Grade Recommended: NLGI 2 oil based
Gearbox Oil Recommended: GL-5 80w-90

Schedule		
Item		**Frequency**
Axle Bushes	(axle grease blocks)	– Grease every second day
Elevator Drive Shaft Bearings	(on forward grease block)	– Grease every 10 loads
Floor Driveshaft Deadeyes	(on forward grease block)	– Grease every 10 loads
Elevator Idler Sprockets		– Grease every 10 loads
Floor Idler Sprockets		– Grease every 10 loads
Cross Conveyor Drive End Bearings		– Grease monthly
Tow Eye		– Grease monthly
Jack Stand		– Grease monthly
Wheel Hubs		– Grease every 3 months
Rear Gate Latch		– Grease every 3 months
Elevator Gearbox		– Maintain level as necessary
Floor Drive Gearbox		– Maintain level as necessary

See diagrams next two pages




Cross conveyor drive end bearings x2
Elevator Idler sprockets (both sides)
Axle bushes grease block (both sides)
Wheel hubs x2 (both sides)
Floor Idler sprockets x2
(Rear Gate hidden for clarity)

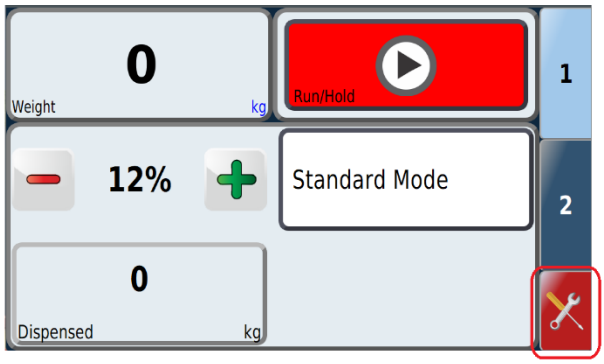

Forward grease block (5 points)
Floor Drive Gearbox
Elevator Gearbox
Jack stand (where fitted)
Tow Eye

Technical - Electronic Control System

In addition to normal operation, the electronic control system features user accessible background settings, to further enhance the machines capabilities.

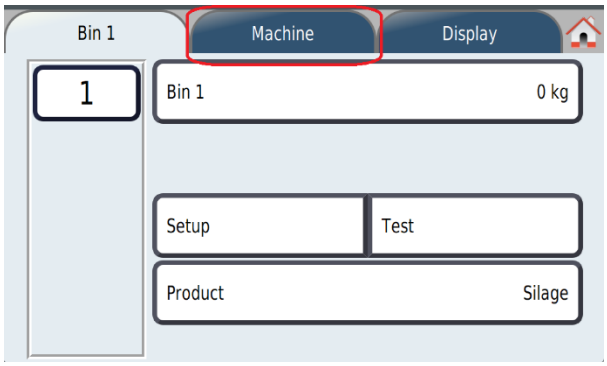
Distance Mode – Adjusting Parameters

If it is found that the machine regularly over-feeds a certain weight while in Distance Mode, adjust the Early Finish Weight parameter to this weight. The machine will stop running earlier to allow for this extra output, thus increasing accuracy.

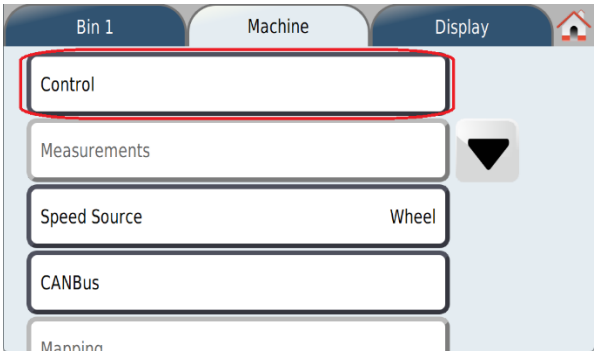


1. Tap Spanners

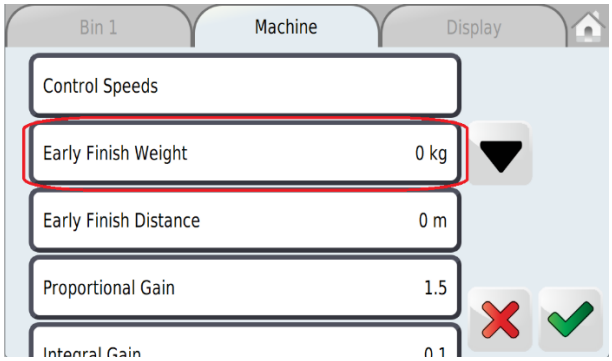
2. Tap Double Cog



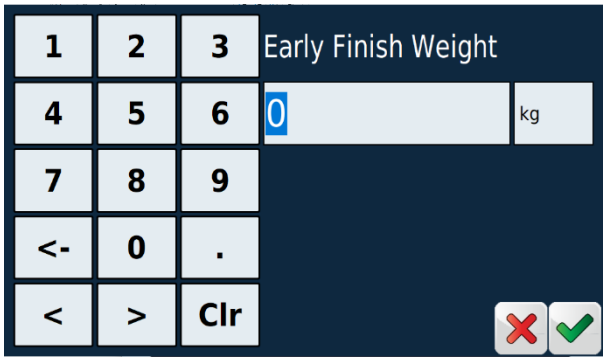
3. Tap Machine



4. Tap Control



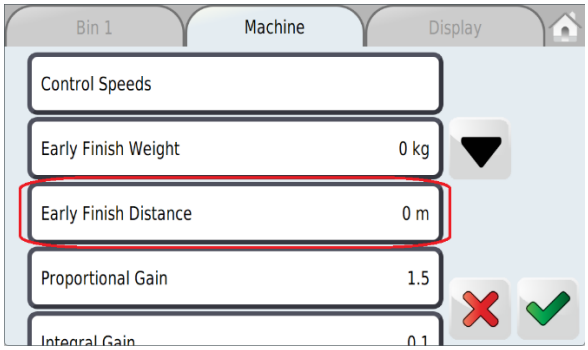
5. Tap 'Early Finish Weight'



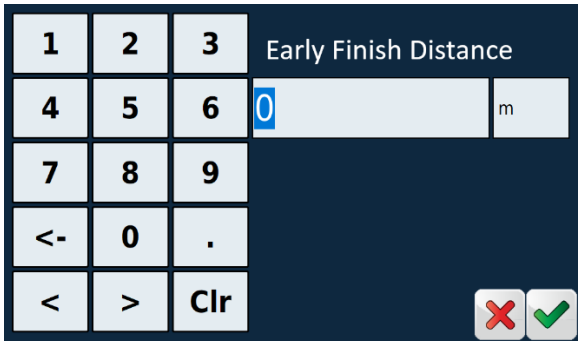
6. Enter the Weight value and tick out

If it is found that the machine regularly continues feeding past the end of the set Distance (while in Distance Mode), adjust the Early Finish Distance parameter to this distance. The machine will stop running earlier to allow for this extra length of feed, thus increasing accuracy.

Follow Steps 1-4 above then:



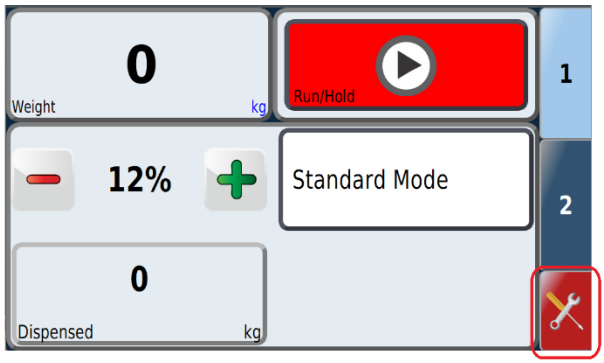
5. Tap ‘Early Finish Distance’



6. Enter the Distance value and tick out

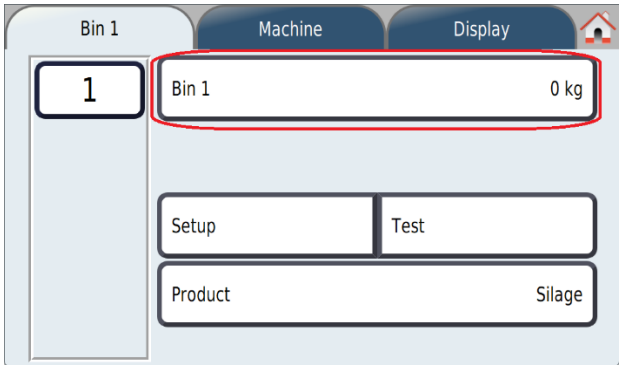
Scales Only Display - Weight Readout Damping

If the G-MAX wagon is optioned with In-cab monitor with Scales Display only, the Weight readout value may fluctuate when moving over rough ground. To adjust the readout damping:

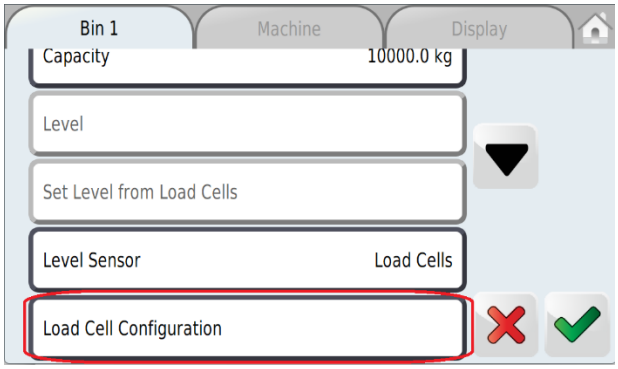


1. Tap Spanners

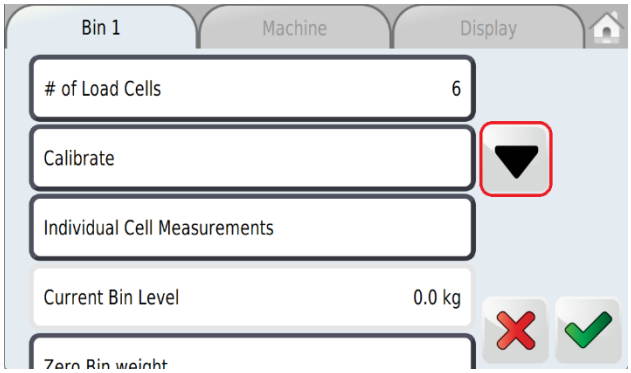
2. Tap Double Cog



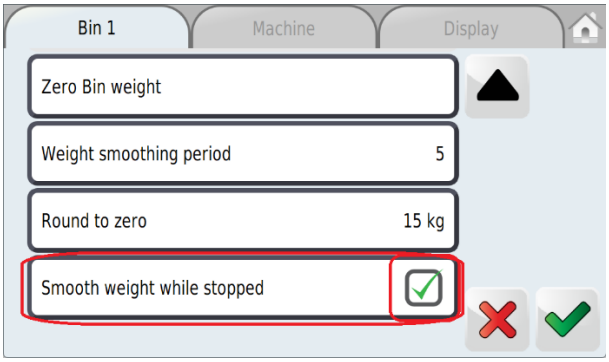
3. Tap ‘Bin 1’



4. Tap ‘Load Cell Configuration’

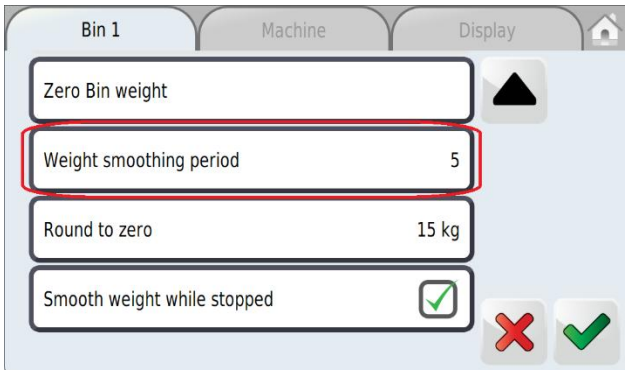


5. Scroll down



6. Tick ‘Smooth weight while stopped’

- The Scales Only option has no ground speed sensor, so the control system is always considered to be ‘stopped’



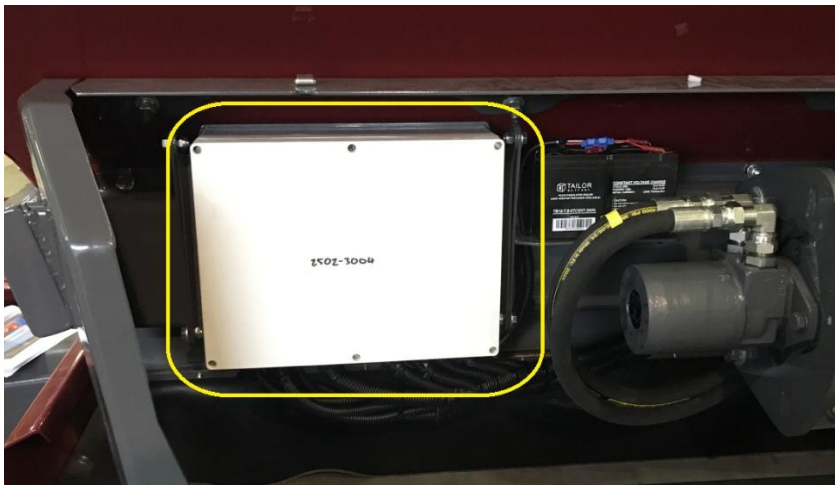
7. Adjust the ‘Weight smoothing period’ value

- The higher the value, the smoother the readout will be, however it will give slower response to change in weight.

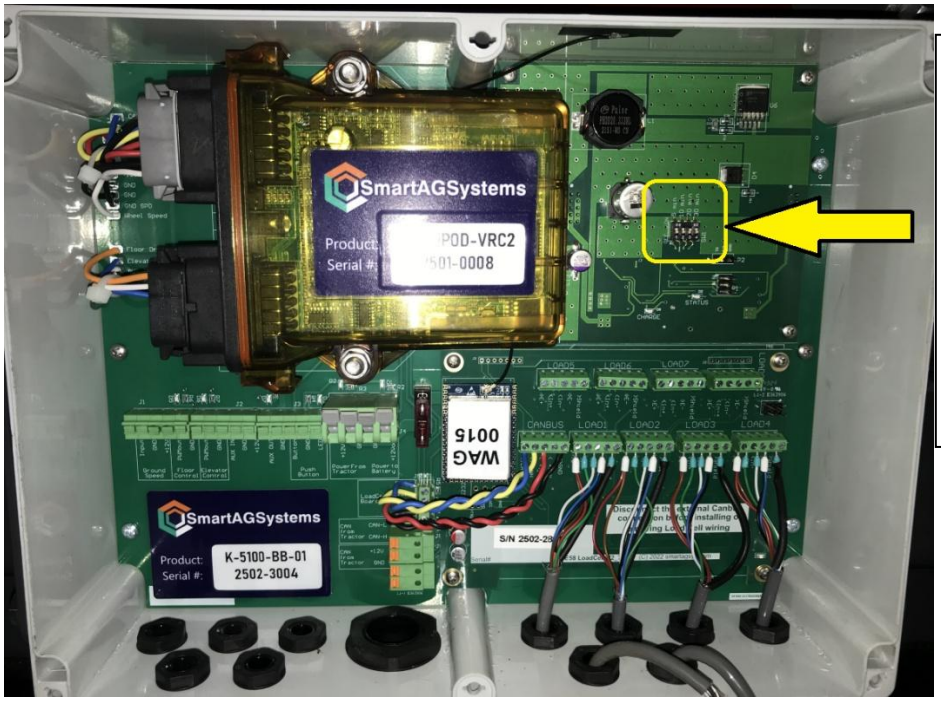
Standby Time Adjustment

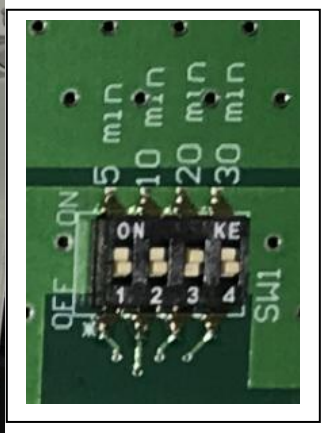
When the Wagon is disconnected from the towing tractor, the scales system will remain On for a set time, to allow weight reading from WiFi connected devices. Once the set time is passed, the system will turn Off to conserve battery power. To adjust the Standby time, follow the below steps:

1. Access the Control System Enclosure on the left side of the G-MAX Wagon, under the stainless-steel cover. The six Philips head fasteners require a quarter turn to release.



2. Locate the group of four dip switches on the Load Cell charging circuit board:

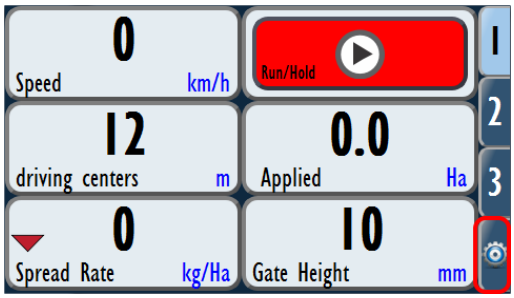




3. The Standby Time is the accumulated value of all Dip Switches in the ‘Up’ position – to a maximum of 1 hour 5 minutes. The Factory setting is 20 minutes.

Updating software version

1. Tap Settings Icon

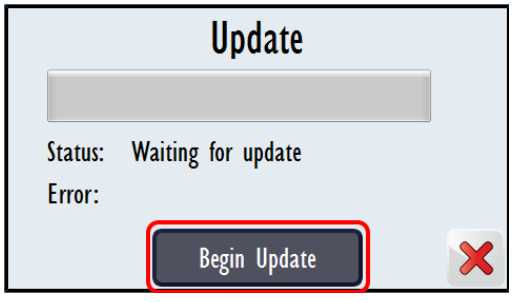


2. Tap Maintenance Menu Icon

3. Tap “System” Button

4. Insert USB with latest software into screen and press “update” button

5. Press “Begin Update” to begin. When the update reaches 100% the screen will reboot. This reboot will take longer than usual and will cause a blank green screen. Once the reboot is complete, ensure screen stays of for a few minutes.

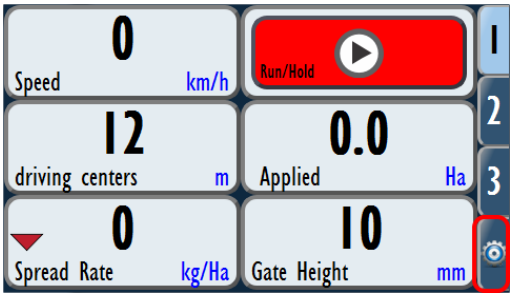


Exporting Settings to USB

If monitor layouts and settings are customized and changed from factory defaults, they should be backed up on the supplied USB.

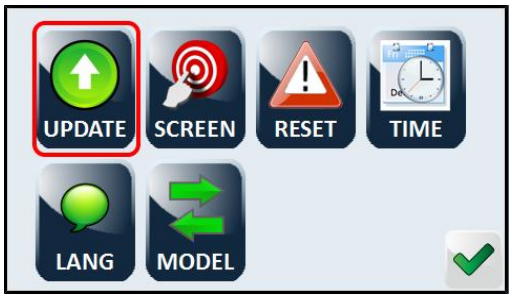
1. Turn on screen and insert USB to export settings onto.

2. Tap Settings Icon



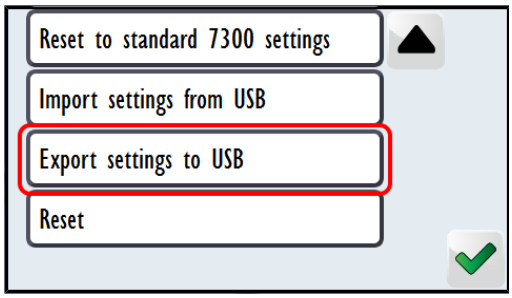
3. Tap Maintenance Menu Icon

4. Tap “System” Button



5. Tap “Reset” Button

6. Scroll Down and Tap “Export Settings to USB”



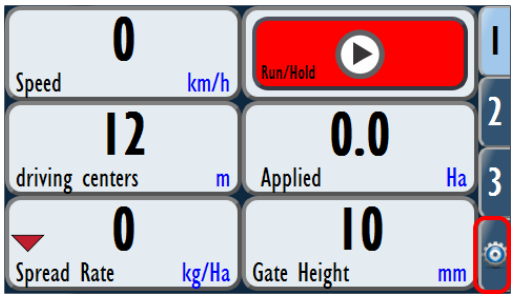
7. Tap “Ok”

This process should be done as often as settings and layouts are customized.

Importing Settings from USB

1. Turn on screen and insert USB with appropriate .bin file.

2. Tap Settings Icon

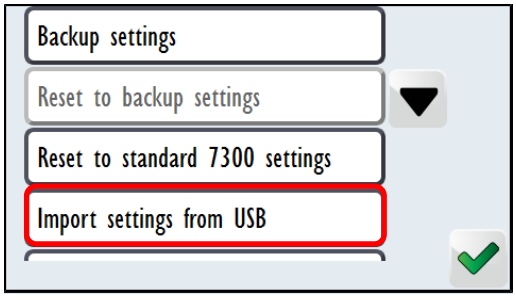


3. Tap Maintenance Menu Icon

4. Tap “System” Button

5. Tap “Reset” Button

6. Tap Import Settings from USB



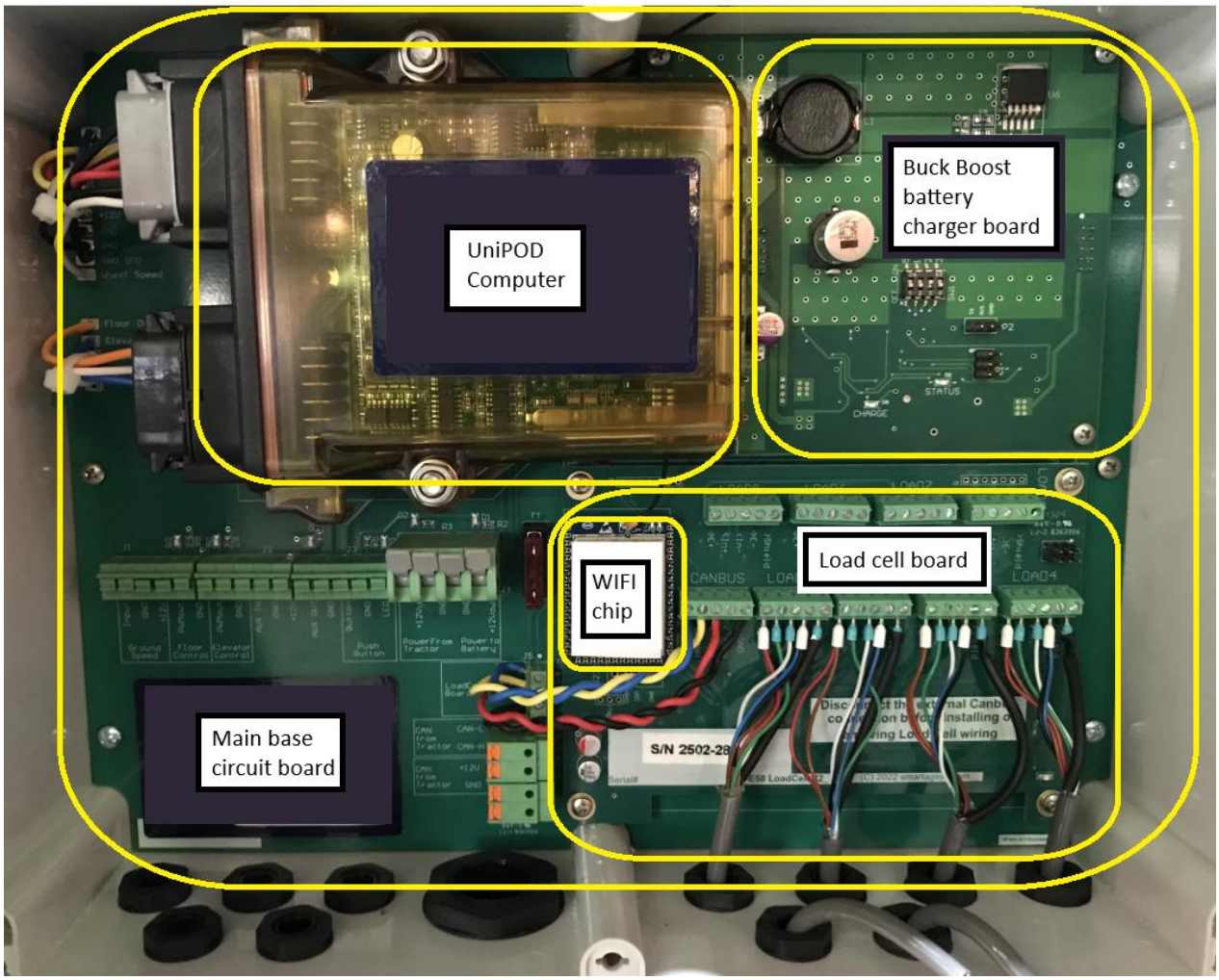
7. Tap “Ok”

8. Run machine to check upload of settings was successful.

Troubleshoot - Enclosure Circuit Boards Identification

The Control System Enclosure is fitted on the front left of the wagon, under the stainless-steel cover. The enclosure lid is held on with six Philips head fasteners, which require a quarter turn to release.

Which Electronic control Option determines which components are fitted.



Main base circuit board – Fitted to all wagons with any electronic control Option

UniPOD Computer – Fitted whenever floor control is Optioned

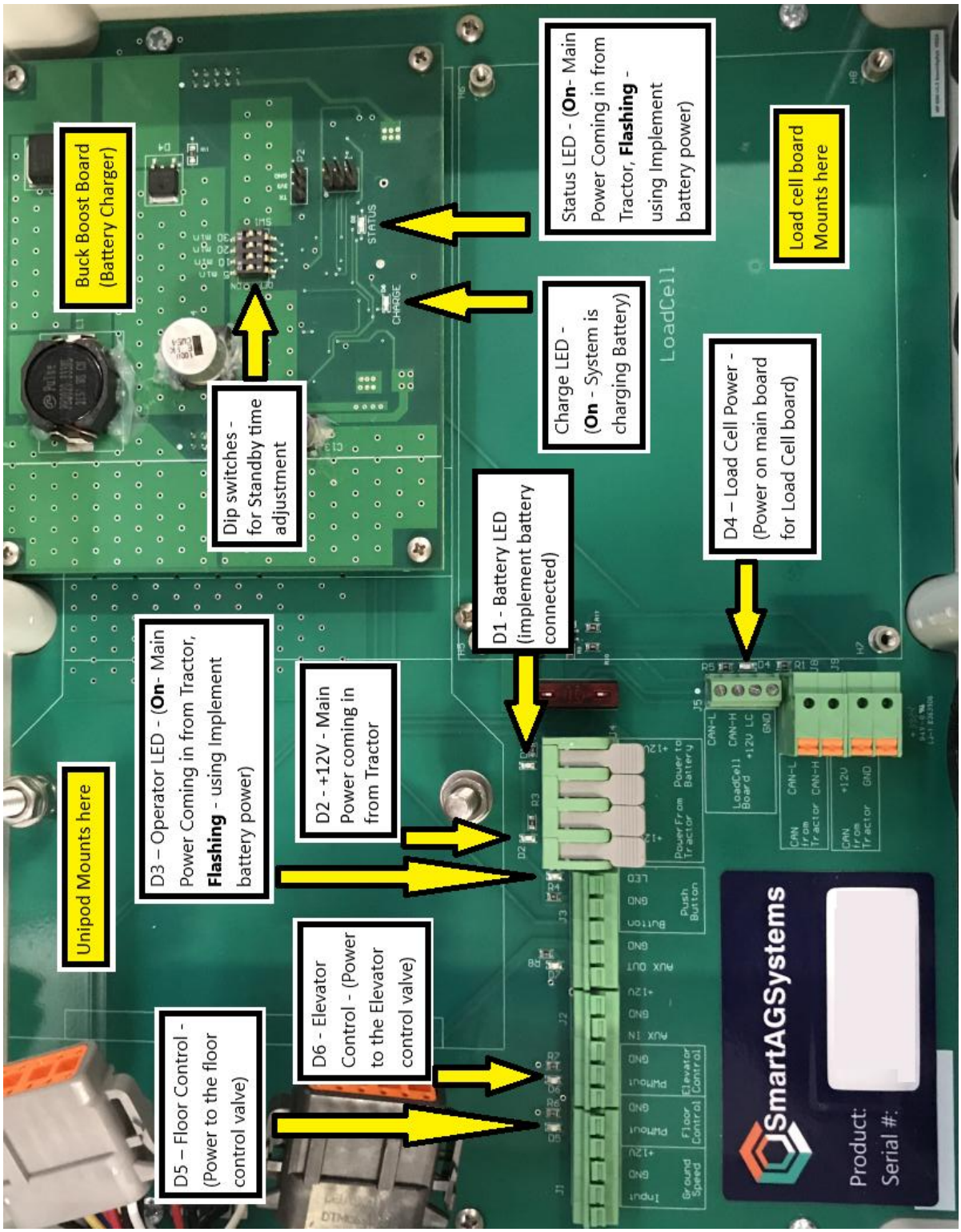
Load cell board AND Buck Boost board – Both used when scales are fitted

WIFI chip OR Phone Scales chip – Either fitted depending on Scales display Option

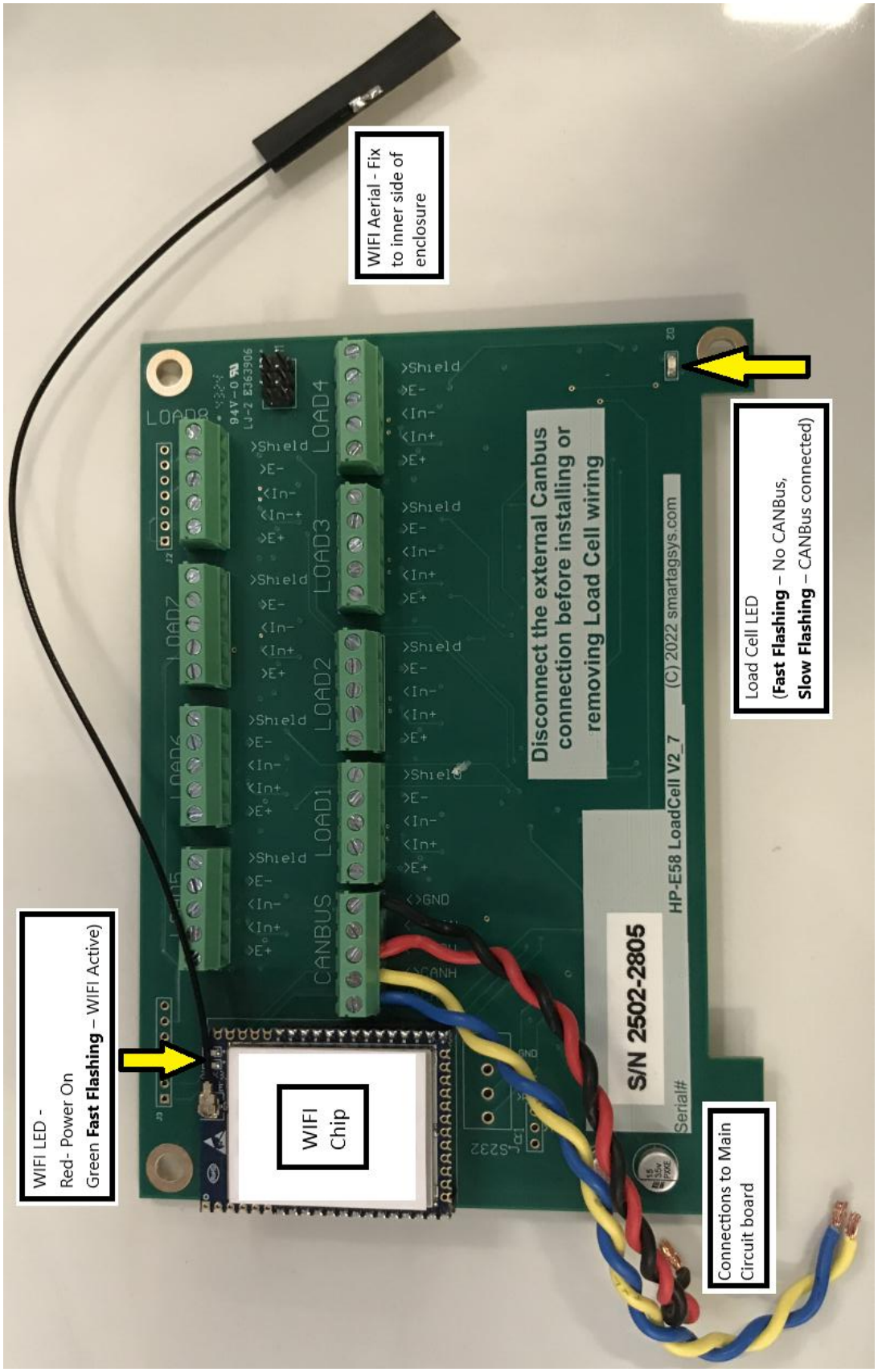
Troubleshoot - LED Status Lights

Each circuit board is fitted with LED lights to assist in machine function diagnostics. See diagrams below:

Main Base circuit board and Buck Boost board:

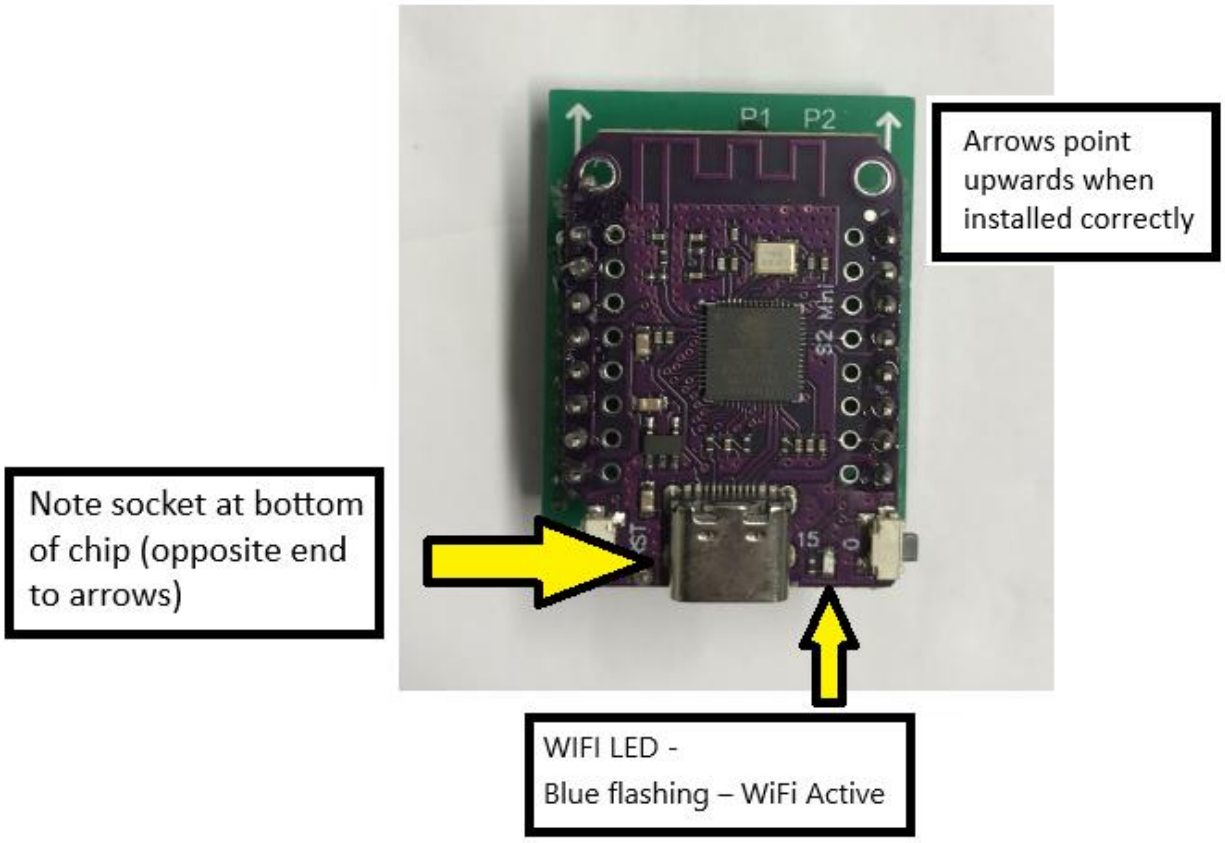


Load cell board



Phone Scales WIFI chip

- Fitted in place of WIFI chip when Phone scales display is Optioned



Troubleshoot - Diagnostic Notes

The tractor should be Turned Off for safety. Start the tractor only when required to test electronic control of a hydraulic function.

Follow all necessary safety precautions.

Ensure the Electronic control system is turned on. The monitor in the cab will power up. If phone scales only is optioned, ensure the tractor loom LED is lit up to indicate 'On.'

Ensure the Tractor loom is plugged in to the Implement loom and the latch lever is clicked in place.

Remove the Electronic enclosure lid and observe which LED's are illuminated.

D1 - Battery LED – This LED remains on at all times, whether the wagon is connected to the tractor or not. If this LED is not On, the battery may be disconnected, discharged, or the fuse blown. If the LED is glowing faintly, the battery may be discharged. This can cause the system to not operate in Standby mode.

D2 - +12V – This LED is On when there is power connected coming from the Tractor AND the Tractor loom switch is On. If not on, check the plug and wiring to Tractor.

NOTE: In order for the Tractor power to be connected to the circuit board, the switching wires must be connected to 'CAN from tractor +12V / GND' terminals.

D3 – Operator LED – This LED operates in conjunction with the LED in the push button. When On, the system is operating on tractor power. When Flashing it is running on wagon battery power. When Off, the system is off. Either press the button or connect tractor plug (ensuring tractor loom is switched On) to turn On the system. If the LED on the circuit board is operating, but the button is not, check the button and its' wiring.

D4 – Load Cell Power – This indicates when power is available on the board for the load cell board. It is turned On whenever the system is On.

D5 – Floor Control – This indicates when power is being sent to the main wagon floor control valve. It is illuminated when the wagon is running. If the wagon floor does not move when the LED is On (and tractor hydraulics are engaged), check the following items:

- Set feed mode to 'Standard.' Increase feed percentage on the touchscreen – too low and the floor won't move.

- Wind manual override knob of floor control in. If wagon floor starts to move, the wiring or coil on the floor control cartridge on the hydraulic block may be faulty. If the wagon still does not start, go to hydraulic troubleshoot guide.

D6 - Elevator Control - This indicates when power is being sent to the elevator On/Off control valve. It is illuminated when the wagon is running. If the elevator does not move when the LED is On (and tractor hydraulics are engaged), check the following items:

- Manually override the elevator control by turning the knob anti clockwise until it clicks. If the elevator starts, the wiring or coil on the elevator control cartridge on the hydraulic block may be faulty. If the elevator still does not start, go to hydraulic troubleshoot guide.

Charge LED – On when system is charging the battery. Note the system senses when a battery is connected and begins charging. If Off when power is connected, the wiring to the battery, fuse or the battery itself may be faulty.

Status LED – On when power is coming in from Tractor, Flashing when battery power is being used. See D3 – Operator LED.

Load Cell LED – Slow Flashing when CANBus is connected (when tractor is plugged in), Fast flashing when no CANBus is connected (running on wagon battery). Off means no power is getting to load cell board. Check wiring connections between load cell board and main base circuit board.

WIFI chip LED's – Red – Power On AND Green fast flashing – WIFI Active. The WIFI signal should be discoverable by the touchscreen monitor. Ensure the aerial is intact and fixed in place inside the enclosure.

Phone Scales WIFI chip LED - Blue flashing means WiFi Active. The WIFI signal should be discoverable by any device capable of receiving WIFI. Note the phone scales WIFI chip does not have an aerial.

Troubleshoot – Symptom Table

Symptom	Possible Fault	Remedy
Red running light, Run/Hold does not work	Wagon plug not connected to tractor	Plug in wagon
Floor runs flat out in 'Run' mode and will not stop	Plugs may be incorrectly connected to hydraulic coils on valve block	Set feed rate to 5% and press 'Run.' Engage tractor hydraulics. If **Elevator** does **not** operate, swap coil plugs at hydraulic block
Wagon enclosure turns off when disconnected from tractor	- Battery flat - Standby time set to zero minutes	- Charge or replace battery - See 'Adjust Standby time' section
Wagon enclosure turns off when disconnected from tractor, even though Battery LED is On	Battery is discharged	Charge or replace battery
'Charge' LED does not turn on when tractor is connected, even though 'Battery' LED is On	A significantly discharged battery may not accept charge	Replace battery
No power to wagon enclosure	- Tractor loom relay faulty - Plug connections faulty	- Replace relay - Dismantle and clean plug connections

Troubleshoot - Loom Plug Wiring

Notes: - Wires are connected based on numbered positions on both plugs.
- The numbers can be found on the 'back' side of the plug once disassembled, where the wires actually fit in to the screw blocks.
- A sticker is fitted where the wires fit in showing the wire number and colour.
- When the sticker is missing or unreadable the numbers can be found moulded into the plug, sometimes under the sticker.

Tractor Loom Plug		Implement Loom Plug	
			
Wire Colour	Pin	Wire Colour	Function
RED	1	RED	+12V Power from tractor
GREEN	2	BLACK	GND CAN from tractor
-	3	-	-
BLACK	4	BROWN	GND Power from tractor
ORANGE	5	WHITE	+12V CAN from tractor
YELLOW	6	WHITE/GREEN	CAN-H
BLUE	7	WHITE/BROWN	CAN-L

Technical - Hydraulic System Troubleshoot

When using the guide, it has been assumed that the tractor has been checked to provide an oil flow rate of between 30 and 60 litres per minute at full working pressure, usually 2200psi (150 bar) or greater. If these conditions are not satisfied, the forage wagon will perform poorly or not at all.

Please refer to the valve layout diagram on the next page to identify the location of the various valves discussed in the guide.

Notes:

- To allow for lower flow tractors (30l/min and below), cartridge #4c can be changed with other types of valve cartridges to change the floor and elevator motor circuit from a parallel to a series circuit to reduce the oil flow requirement. Please note that this arrangement will cause the machine to run with acceptable speed but reduced power compared to the parallel circuit.

- Cartridge #4c (as fitted as standard) is a check valve (CXDA) for a permanent series connection between the floor and elevator motors. By replacing this with a cavity blank (XFOA) permanent parallel connection is achieved.

- By replacing cartridge #4c with a free flow reverse needle valve (NCCB), it is possible to convert the circuit between series and parallel in the field by winding fully in for series or fully out for parallel.

- Changing cartridge #4c from CXDA to SCCB (set @ 1700psi) will provide pressure relief when the floor is reversed. When relief pressure is reached, the conveyor belt will begin to operate in reverse.

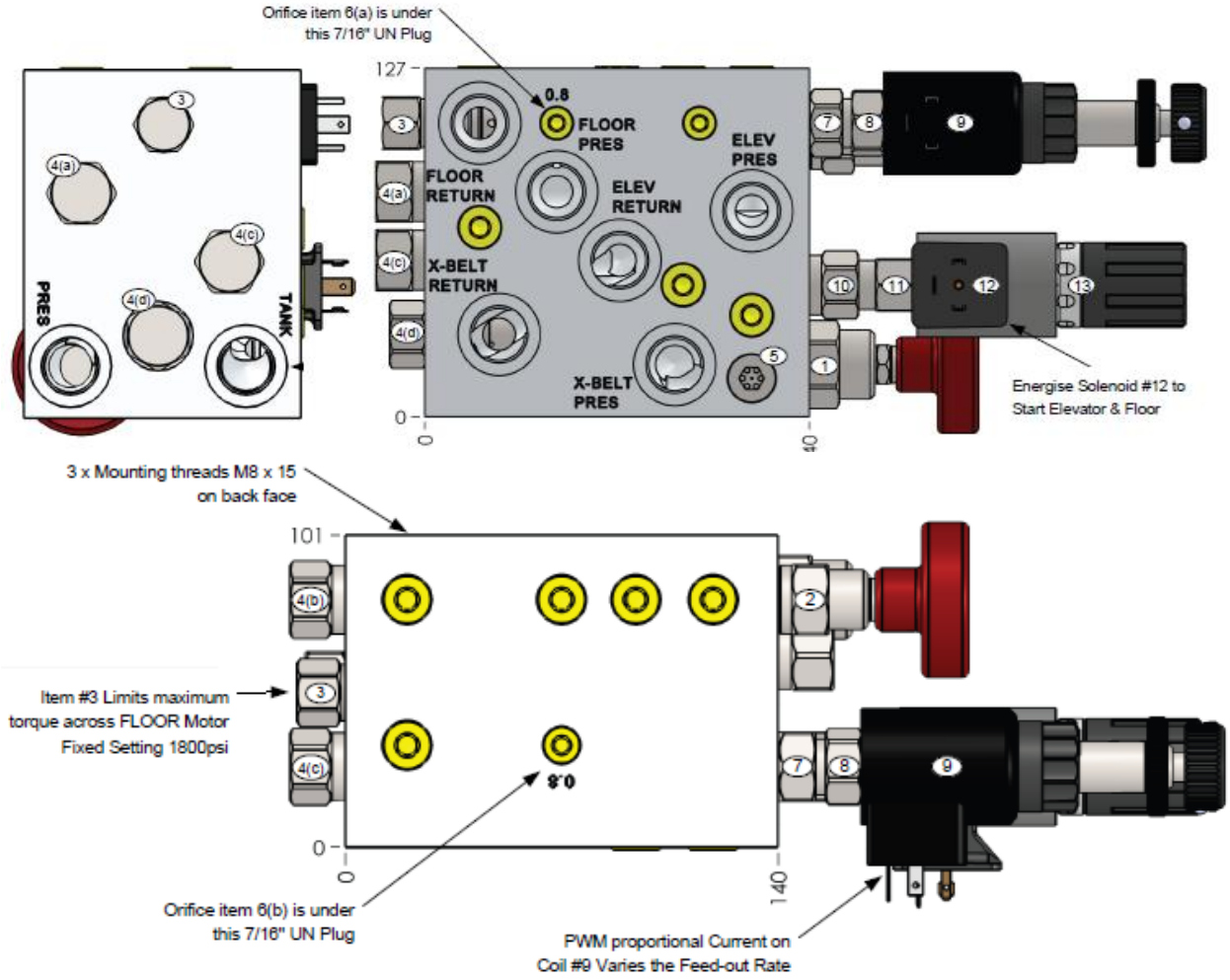
- Machines that develop or operate with a jerking or shuddering action can be rectified by fitting a non-standard inline valve (SCCB 154Z P8) with relevant fittings between the port marked ‘ELEV PRES’ and the elevator motor. This preloads the hydraulic circuit and smooths the operation.

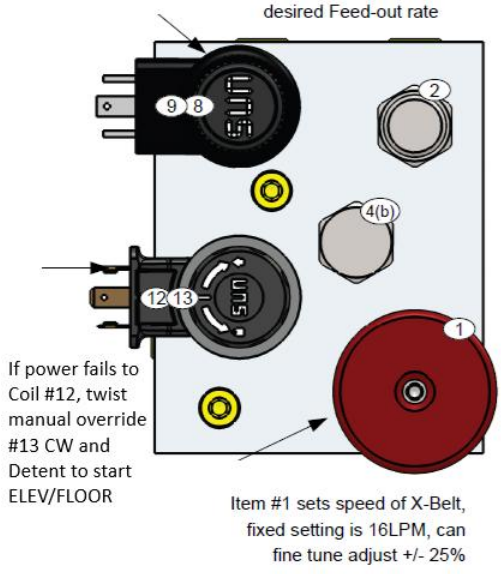
- If Elevator power seems low, check 4(d) is the correct CXDA cartridge. Early manual control blocks were fitted with XFOA blanks which must be changed to CXDA when electronic control is fitted.

Note: This procedure was written specifically for Giltrap machines fitted with the 4045A valve assembly (stamped on the block itself).

If you have an older Giltrap model, contact Giltrap Engineering for advice or a different trouble shooting procedure.

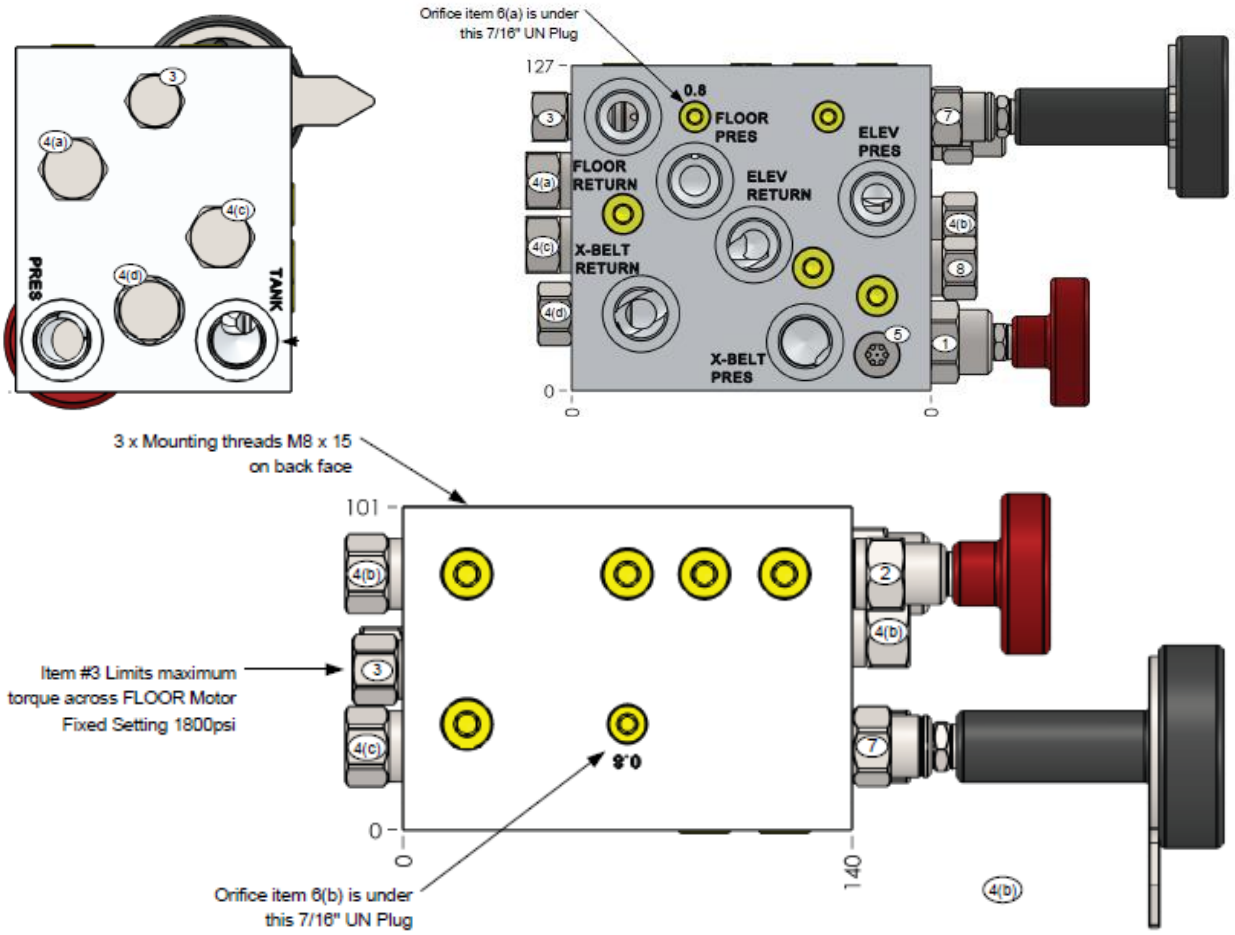
4045A Valve Layout – Electronic Control

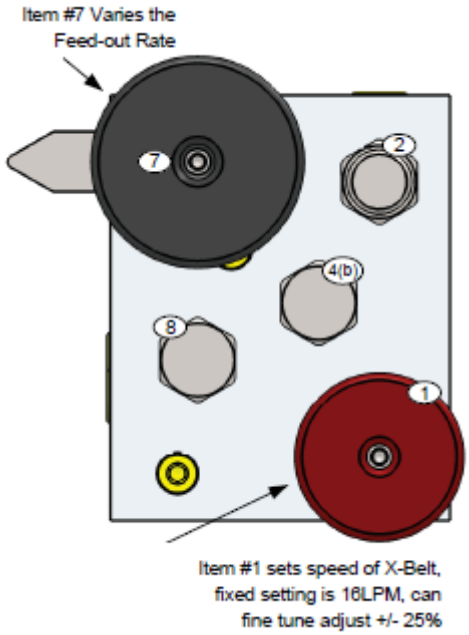




POS	QTY	PART NO.	DESCRIPTION	SETTING
1	1	FRDA LAN	FLOW CONTROL (Ø3.6mm)	16 lpm
2	1	LHDA XEN	FLOW COMPENSATOR	
3	1	RDBX XAN-1800	FIXED SETTING FLOOR RELIEF VALVE	1800 psi
4	4	CXDA XAN	CHECK VALVE	4 psi
5	1	CXBG XAN	CHECK VALVE	4 psi
6	2	1/16" NPT x 0.8mm	ORIFICE PLUG	
7	1	DVBB 8FN	SEQUENCING ELEMENT N.C.	
8	1	RBAP KAN	PROP. PILOT RELIEF WITH KNOB	
9	1	770-212	SOLENOID COIL - 12 VOLT	
10	1	DFCA 8DN	POPPET ELEMENT (1 TO 2)	
11	1	DTAF MHN	N.O. PILOT SOLENOID	
12	1	740 212D	SOLENOID COIL - 12 VOLT	
13	1	991-285	MANUAL OVERRIDE KIT	

4045A Valve Layout – Manual Control





POS	QTY	PART NO.	DESCRIPTION	SETTING
1	1	FRDA LAN	FLOW CONTROL (Ø3.6mm)	16lpm
2	1	LHDA XEN	FLOW COMPENSATOR	
3	1	RDBX XAN-1800	FIXED SETTING FLOOR RELIEF VALVE	1800psi
4	4	CXDA XAN	CHECK VALVE	4psi
5	1	CXBG XAN	CHECK VALVE	4psi
6	2	1/16" NPT x 0.8mm	ORIFICE PLUG	
7	1	DPBB LCN	NORMALLY CLOSED SEQUENCE	2200psi
8	1	XGCA XXN	CAVITY PLUG (Full Blank)	

Giltrap Wagon Check Sheet

New wagons are factory tested with a total operating pressure of about 1000psi.

Pressures higher than this are usually caused by a tight or off-centre conveyer belt, tight elevator and/or floor chains, or bearings that are seized or need greasing.

A conveyer extension belt (if fitted) will add 200-300psi to the operating pressure.

Tractors that are supplying greater than 60 litres/min may also cause additional back pressure and should be throttled back to the recommended flow parameters.

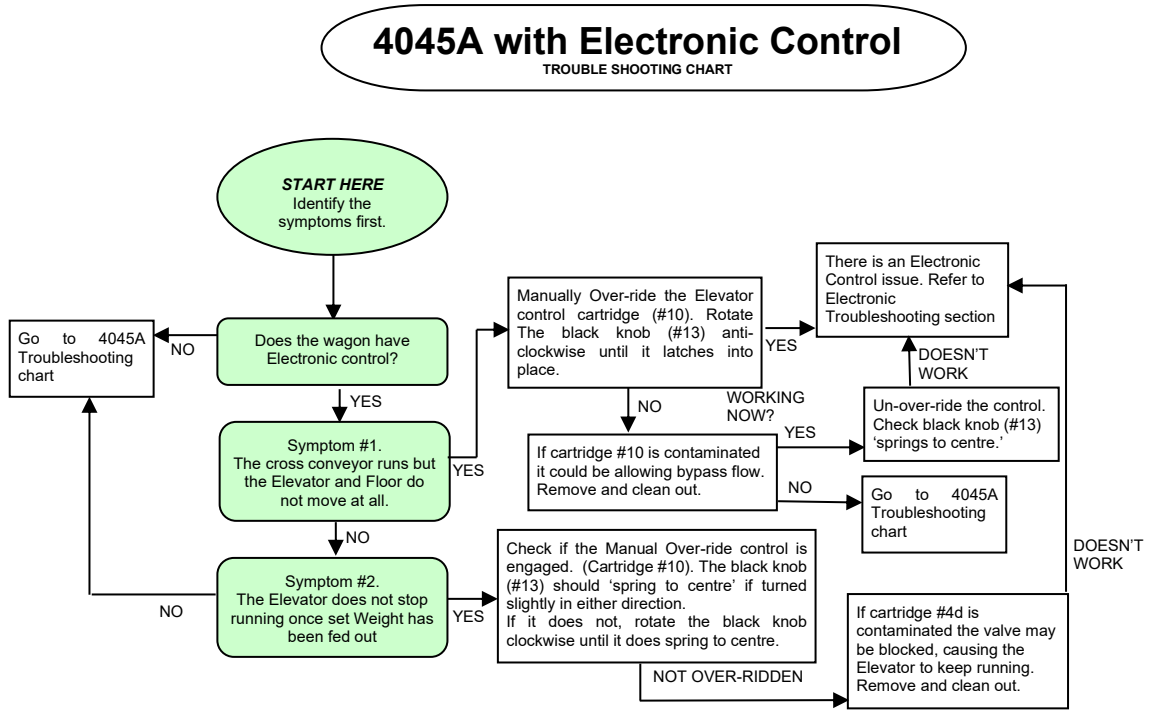
Tips:
To isolate mechanical from hydraulic faults, motors can be mechanically uncoupled from the shaft they are powering and run with no load. If the high pressure reading drops dramatically with no load attached, it is generally safe to assume that the fault is mechanical (i.e. bent shaft, tight chains, collapsed bearing etc).

If a problem persists, identify the operating symptoms and use the trouble shooting flow chart to isolate and rectify the problem.

Contact your Giltrap dealer about our hydraulic block service-exchange programme

FOLLOW **4045A with Electronic Control Trouble shooting chart**

BEFORE **4045A Trouble shooting chart**



4045A
TROUBLE SHOOTING CHART

START HERE
Identify the symptoms first.

Symptom #1.
The wagon doesn't run at all.

Symptom #2.
The conveyor belt runs and the floor runs but the elevator stalls.

Symptom #3.
Can't control the feed out rate because the floor won't stop coming forward.

Symptom #4.
Only the conveyor belt runs. The floor and elevator run very slowly or not at all. Refer also to Symptom 6.

Symptom #5.
Only the floor and elevator run. The conveyor belt is stationerv.

Symptom #6.
The floor won't bring the load forward or move forward even when the wagon is empty but it will run in reverse. The conveyor belt works ok.

None of these?
Contact Giltrap Engineering for further advice.

Check for faulty snap couplings. When the hydraulics are engaged to feed out, does the pressure hose between the tractor and wagon go taut?

NO → The pressure QRC is possibly faulty or incompatible with the tractor. Replace and start again.

YES → The pressure QRC is probably ok. Is the return hose from the wagon to the tractor taut also?

YES → The return QRC is possibly faulty or incompatible with the tractor. Replace and start again.

NO → The conveyor belt is possibly stuck, too tight or jamming for some reason. If the belt is too tight or has excessive drag, it will use too much system pressure, causing power loss and problems in the other motors.
Check the following:

- The belt is not seized
- There is no foreign material inside the belt
- The scrapers are not touching the rollers. There should be at least 1mm clearance.
- The belt is not tensioned too tight
- The belt is not rubbing on any part of the body. It should track somewhere near the centre of the roller.
- There are no collapsed bearings or bent/broken roller shafts.

NOT SURE? → If everything appears ok, but you are not sure, a simple check to determine whether the fault is mechanical or hydraulic is to disconnect the motor shaft coupling.
Is the belt reasonably easy to turn by hand?

YES → Does the motor run freely with the tractor hydraulics engaged as if feeding out?

YES – CHECK BELT THROUGHLY AGAIN

NO → Check that the belt is not too loose.
If it is, the drive roller could be slipping inside the belt. If necessary, re-tension the belt until it is just tight enough to drive. Work at one end of the belt only. Once tension is right, the belt may have to be readjusted slightly to get it tracking in or near the centre of the rollers. Adjust the belt with the wagon running at its normal operating speed, preferably empty. Adjustments as small as ¼ of a turn will make a difference.
The belt will move towards the loosest side.

THE BELT TENSION IS OK → Check valve cartridge #4c may be stuck open. This would allow oil to bypass the conveyor motor circuit. Ensure that this valve is type CXDA. Remove and check the valve. There maybe foreign material jamming the valve poppet in the open position. Note: The valve poppet normally depresses inwards to open with a spring return.
Clean, test and replace. Test-run the wagon.

NO → 7 may have been screwed in clockwise too far. Unwind fully to check if floor slows or stops.
Orifice #6b is possibly blocked. Remove UN plug and remove the orifice plug located at the base of the hole using a 3/16" AF hex key. Inspect the orifice for blockage and flush out the galleries in the main block. Replace and test the wagon.
Note: When this orifice is blocked, the floor will not slow down or stop when the sensor valve setting #7 is reduced. The load will keep coming forward and likely stall the elevator motor, or the wagon will unload too quickly.

STILL TOO FAST → Disconnect the power to the floor control.

OK → See separate Electronic control sheet

YES → Is Electronic control fitted to the machine?

NO → Screw the outer knob on cartridge #7 in clockwise. Does the floor move forwards now?

YES → It is an Electronic control problem. See the separate control sheet for more

NO → Check that the load sensing valve cartridge #7 is not set too low. This is adjusted with the black knob on all models.
A simple method of adjustment is to screw the setting in ½ a turn at a time (clockwise) until the floor starts to bring the load forward. If you adjust the valve too far, the elevator will probably overload and stall or the wagon will unload too quickly. Back the setting off approx 1/8 of a turn per time until a happy medium is achieved.
Note: This adjustment is quite sensitive.

FLOOR STILL STATIONARY?
Check the pilot orifice #6a by removing the UN plug and use a 5/32" A/F hex key to remove the internal orifice plug located at the base of the cartridge cavity. Inspect for blockage and flush the oil galleries in the main valve block.
Replace orifice plug and cartridge.

FLOOR STILL STATIONARY?
Remove cartridge #7.
This is the load sensing valve. Inside the nose of the cartridge, approx 25mm deep is a fine wire mesh screen. If this is partially or completely blocked with foreign material the floor will not come forward with any load on it, but the elevator will still operate.
Flush out any contaminate, replace and test run the wagon.

FLOOR STILL STATIONARY?
Inspect cartridge #7 for any signs of visible damage. The threaded valve stem has a wire clip located in a machined groove approx halfway along its length which stops the valve being screwed in too far.
Is this clip missing, or does it look as though the valve has been adjusted past this stop point?

FLOOR STILL STATIONARY?
Cartridge #3 may be faulty and bypassing oil.

FLOOR STILL STATIONARY → Check cartridge #2 for contamination. The cartridge may not be modulating and not supplying the floor with oil.

YES/NOT SURE → Contact Giltrap Engineering. Cartridge #2 or #7 will probably have to be replaced or tested.

NO - CHECK FLOOR MOTOR → The motor is possibly faulty or damaged.
Check with in-line pressure gauges and/or flowmeter. If you need to replace the motor because it has been damaged by foreign particles passing through it, you must flush out the hydraulic system thoroughly with all motors and valves disconnected.
Don't do this or replace the motor until you are sure that the source of contamination has been removed.

NO – CHECK FLOOR MOTOR → It is possible that the floor is binding mechanically somewhere. Check the following:
Are any of the floor bars catching somewhere on the body of the wagon?
Have any of the shaft bearings seized, either on the floor shafts or in the drive transmission?
Are the floor chains too tight, causing the floor shafts to bind in the bearings?
Have any of the chains either on the floor or in the transmission broken, twisted or jumped off the sprockets?

CONVEYOR IS OK → Have you checked the belt for jamming or excessive power usage? Install a "T" pressure gauge into the pressure line from the tractor to the wagon. It should only require approx 1200psi to run the machine empty. Is it less than this?

NO - CHECK THE CONVEYOR BELT MOTOR

STILL NOT WORKING → Does the conveyor belt appear to run faster than normal (faster than 450 rpm)? Cartridge #1 (FRDA) may be faulty and bypassing more oil than the tractor can supply. Test and replace.

Increase the tractor revs so that it is producing maximum oil flow. As the flow rate increases, the floor and elevator should begin to work.
If the tractor has a flow control device for the remotes, check that it is set to provide maximum oil flow.
Performance from lower oil flow tractors can be maximised by running the conveyor belt as slow as practically possible. Adjust this speed with the knob on cartridge #1. The tractor hydraulics must be in the neutral position for this adjustment to be made.

YES → Does the elevator run freely?

NO → Is Electronic floor control fitted to the machine?

YES → Screw the outer knob on cartridge #7 in clockwise. Does the floor move forwards now?

NO → Check that the load sensing valve cartridge #7 is not set too high. This is adjusted with the black knob on all models.
A simple method of adjustment is to back the setting off a couple of turns (anti-clockwise).
If all else is ok, the elevator should run, but the floor may not bring the load forward if you have made too much adjustment. If so, adjust clockwise until the load starts moving forward without stalling the elevator.
Note: This adjustment is quite sensitive.

STILL STALLING → Check #4a and #4c for contamination. The cartridge may be leaking.

NO → Is the elevator motor coupling ok? Check if there are driving teeth missing off the coupling, meaning there is no drive to the elevator shaft. If broken, replace and try again.

NO → Check #2 for contamination. The cartridge may not be modulating and over supplying the floor with oil.

NO → Maybe the elevator is jammed mechanically. Unbolt the motor from its mount and try to turn the elevator by hand. If it doesn't turn reasonably freely, check the following:
Have the elevator chains jumped off the sprockets?
Are the elevator chains too tight or out of pitch?
Have any of the shaft bearings seized?

NO → Does the motor run freely with the tractor hydraulics engaged as if feeding out?

YES → If cartridge #4c is CXCD type it could be bypassing and putting equal pressure to both sides of the elevator motor. Remove and inspect the valve. The valve spool normally moves out to open with a spring return. Is it jammed open?

YES → Remove any foreign matter jamming the valve open and refit or replace the valve if necessary. The elevator should now function correctly.

NO – CHECK ELEVATOR MOTOR

The belt seems to run ok but still is having problems with power to the floor and elevator motors.

The elevator motor is stalling but the floor goes.

NO → The elevator and floor both seem to lack power, or the elevator runs ok but the floor lacks power and/or doesn't move. Jump to symptom #6.

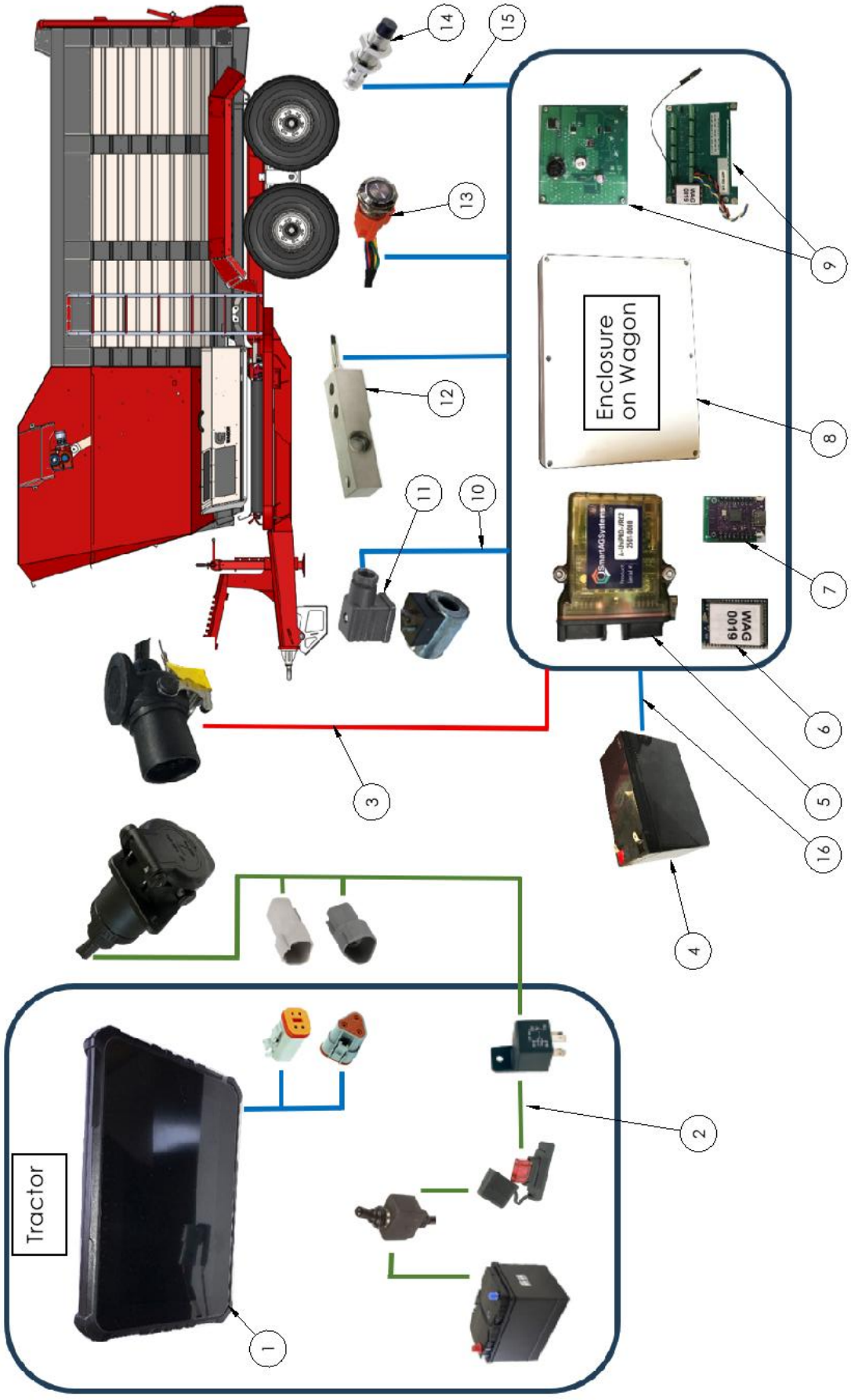
YES → Does the elevator run at all, even with no load touching the spiked bars?

NO → Check #4a and #4c for contamination. The cartridge may be leaking.

YES → Check that the load sensing valve cartridge #7 is not set too high. This is adjusted with the black knob on all models.
A simple method of adjustment is to back the setting off a couple of turns (anti-clockwise).
If all else is ok, the elevator should run, but the floor may not bring the load forward if you have made too much adjustment. If so, adjust clockwise until the load starts moving forward without stalling the elevator.
Note: This adjustment is quite sensitive.

Parts Section

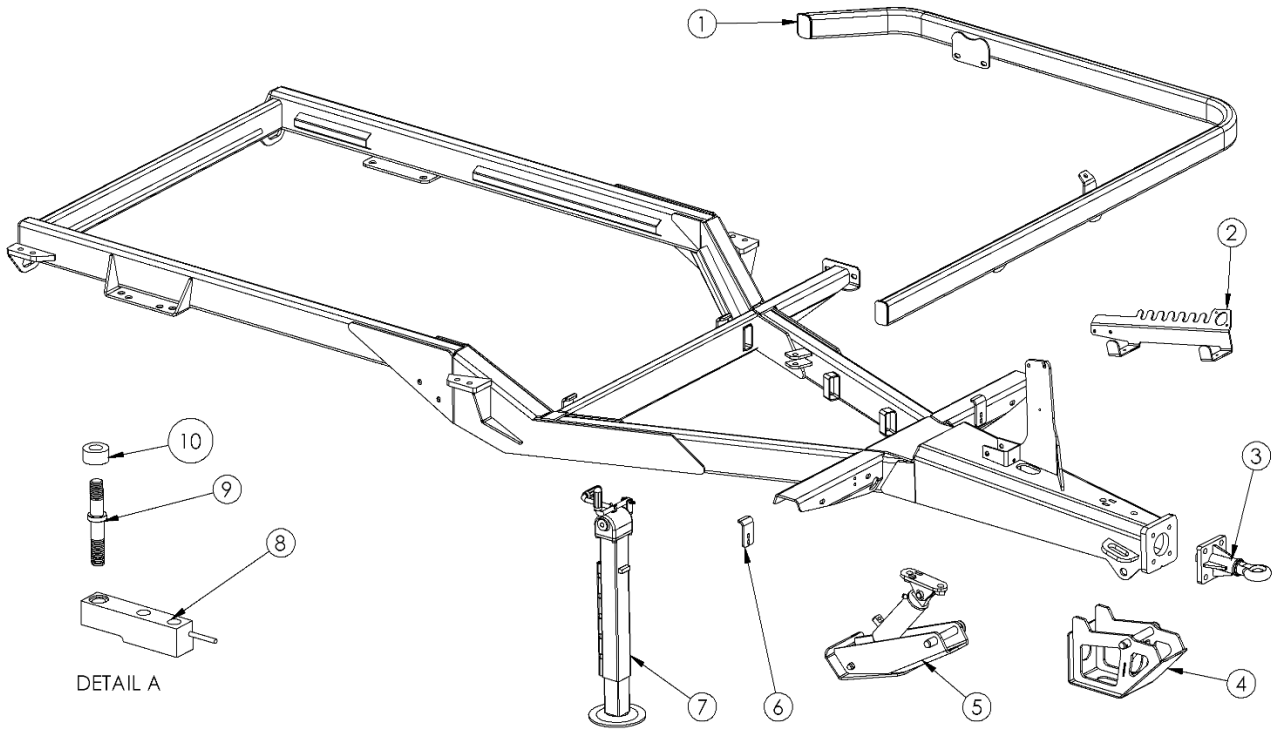
Electronic Control System Components



Electronic Option A - Wireless scales with manual floor control
Electronic Option B - Wireless electronic rate control without scales
Electronic Option C - Wireless scales and full automatic feed rate control
Electronic Option D - Phone based wireless scales with manual floor control

Item	Part Number	Description	Option A qty	Option B qty	Option C qty	Option D qty
1	7105Pro	7" Feed Wagon WIFI display	1	1	1	-
2	11660-LEV	Tractor Loom - Lever lock type	1	1	1	-
	15505	Tractor Loom - Phone Scales Display only	-	-	-	1
3	11647-LEV	Implement Loom, SmartAg - Fert Spreader and G-MAX	1	1	1	1
4	TCS-BATTERY2	Battery SLA 7.2Ah c/w F2 Terminals	1	-	1	1
5	A-Unipod-VRC-2	2 bin Unipod @ 5 buy price	-	1	1	-
6	A-WIFI-C	WIFI Chip Module - Wagon Controller with antenna	1	-	1	-
7	A-5009-W-GIL	WIFI Chip Module- Phone	-	-	-	1
8	K-5100-BB-01	Base Box	1	1	1	1
9	K-5100-LC-01	Load cell addition	1	-	1	1
10	#ES-2C	Dual Core Wire for Coil	-	Measure to Order	Measure to Order	-
11	11695	DIN Coil Plug	-	2	2	
12	ES-WLY00003P	Load Cell, PT 5,000Kg - RF Wagons & Fert Spreaders	G-MAX9-11: 4 off G-MAX13+: 6 off	-	G-MAX9-11: 4 off G-MAX13+: 6 off	G-MAX9-11: 4 off G-MAX13+: 6 off
13		Standby Button (supplied with Base Box)	1	-	1	1
14	TCS-OEM-PROX	Proximity Sensor - Omron	-	-	1	-
15	11657	Sensor Cable - Straight Plug - 10m	-	-	1	-
16	15537	Battery Isolator loom (including switch) Note: fitted from mid-2025	1	-	1	1

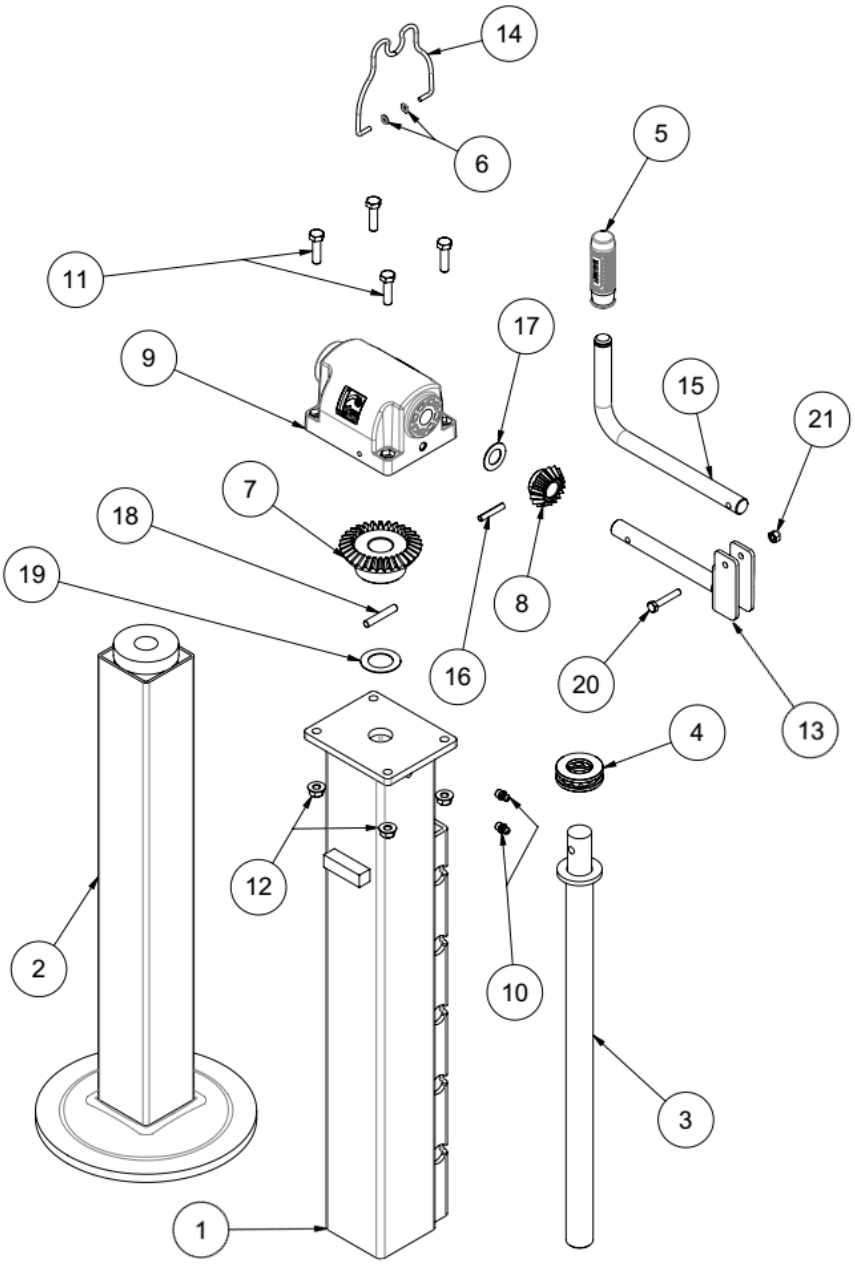
Bottom Chassis

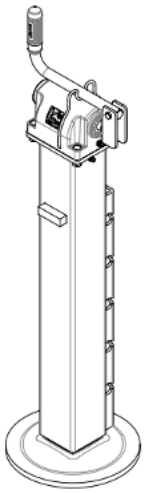


Item	Part Number	Description	Qty GMAX9	Qty GMAX11	Qty GMAX13	Qty GMAX16	Qty GMAX21
1	14856	Bumper	1	1	1	1	1
2	15061	Hose Holder	1	1	1	1	1
3	14937	Swivel Tow Eye	1	1	-	-	-
-	13918	Swivel Tow Eye	-	-	1	1	1
4	14987	Quick Hitch foot (optional)	1	1	1	1	1
5	14902	Hydraulic Jack (optional)	1	1	-	-	-
-	14876	Hydraulic Jack (optional)	-	-	1	1	1
6	14099	CC holder	2	2	2	2	2
7	301-4020	Jack	1	1	1	1	1
8	ES-WLY00003P	PT 5000 Load cell (optional)	4	4	6	6	6
9	700-0200	Cell float bolt	4	4	6	6	6
10	A-SW20/40	Spherical Washer	4	4	6	6	6

Rima Jack

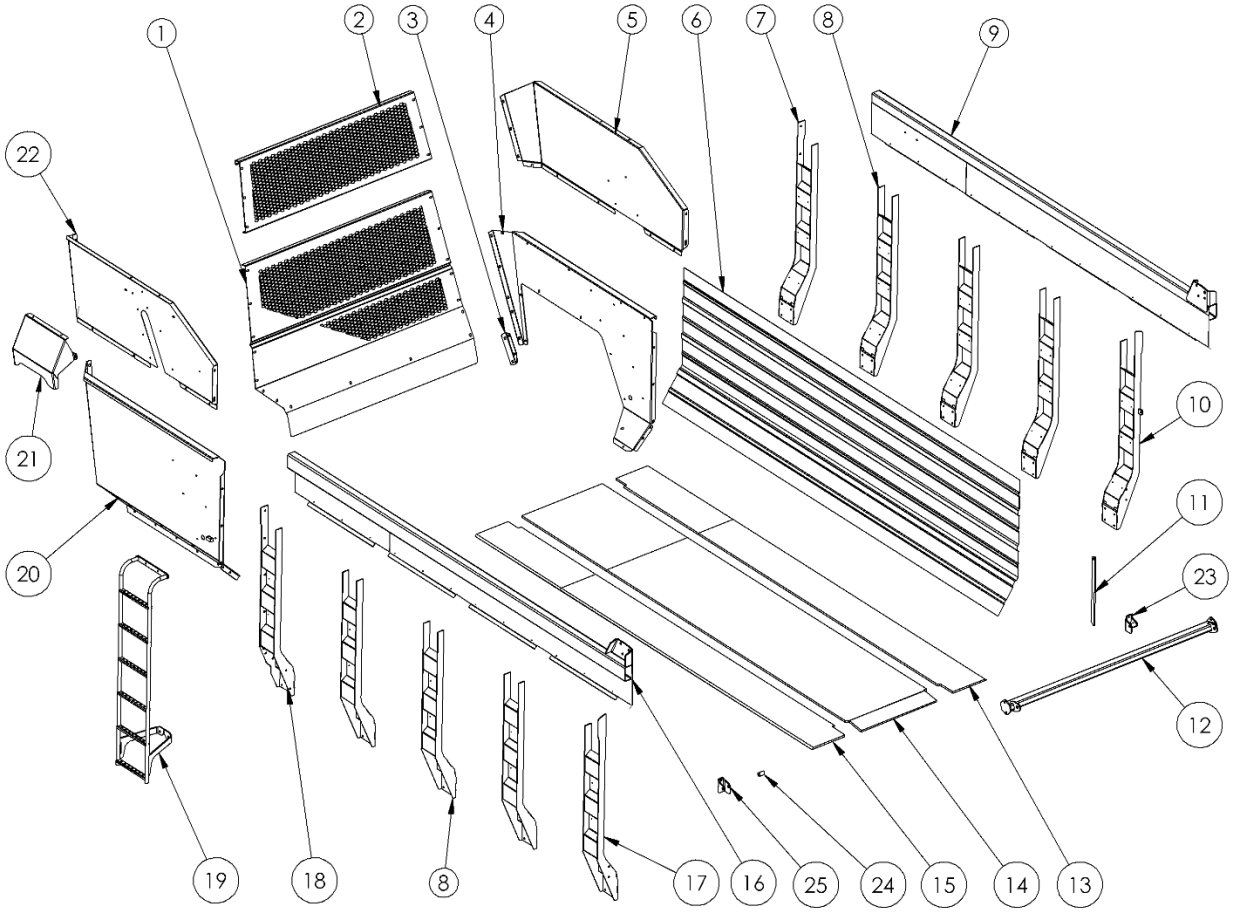
RIMA Parking Jack





Item:	Code:	Q.ty:
21	90064755	1
20	90076770	1
19	90068800	1
18	90070956	1
17	90068720	1
16	90071940	1
15	900411324	1
14	900416341	1
13	979303981	1
12	90064766	4
11	90079350	4
10	90039930	2
9	90049035	1
8	90033262	1
7	90033253	1
6	90069014	2
5	90041090	1
4	90034200	1
3	90057712	1
2	940655403	1
1	940275933	1

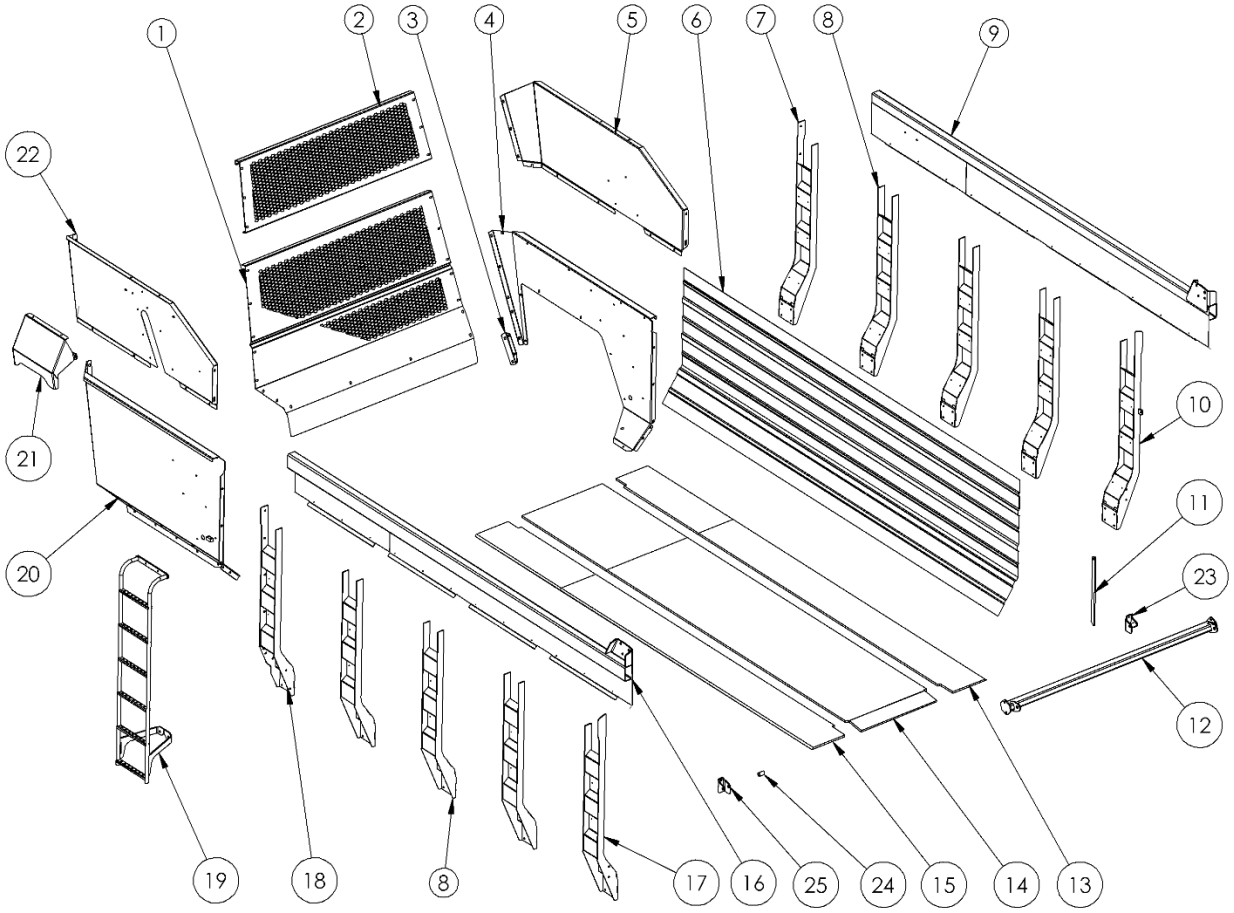
Front Panels – June 2025 on



Item	Part Number	Description	Qty GM9	Qty GM11	Qty GM13	Qty GM16	Qty GM21
1	14739	Front lower panel	1	1	1	1	1
2	14843	Front upper panel	1	1	1	1	-
-	15359	Front upper panel	-	-	-	-	1
3	14925	Gap filler	1	1	1	1	1
4	14894	Forward lower right panel	1	1	1	1	1
5	14905	Forward right upper panel	1	1	1	1	-
-	15358	Forward right upper panel	-	-	-	-	1
6	SCOIL1.2/SSS	Side panel	2	-	-	-	-
-	SCOIL1.2/SSS	Side panel	-	2	-	-	-
-	SCOIL1.2/SSS	Side panel	-	-	2	-	-
-	SCOIL1.2/SSS	Side panel	-	-	-	2	-
-	SCOIL1.2/SSS	Side panel	-	-	-	-	2
7	15455	Front Right Upright	1	-	-	-	-
-	15428	Front Right Upright	-	1	1	1	-
-	15438	Front Right Upright	-	-	-	-	1
8	15454	Side Upright	4	-	-	-	-
-	15427	Side Upright	-	4	6	8	-
-	15437	Side Upright	-	-	-	-	10
9	15460	Combing Rail (Right hand)	1	-	-	-	-
-	15443	Combing Rail (Right hand)	-	1	-	-	-
-	15433	Combing Rail (Right hand)	-	-	1	-	-
-	15448	Combing Rail (Right hand)	-	-	-	1	-

Item	Part Number	Description	Qty GM9	Qty GM11	Qty GM13	Qty GM16	Qty GM21
-	15442	Combing Rail (Right hand)	-	-	-	-	1
10	15457	Right Rear Upright	1	-	-	-	-
-	15426	Right Rear Upright	-	1	1	1	-
-	15439	Right Rear Upright	-	-	-	-	1
11	699-1002	Gate stay	1	1	1	1	1
12	15436	Gate brace beam	1	1	1	1	1
13	15198	Floor Outer RH	1	1	-	-	-
-	15182	Floor Outer RH	-	-	1	-	-
-	14854	Floor Outer RH	-	-	-	1	-
-	15370	Floor Outer RH	-	-	-	-	1
14	15199	Floor Centre	1	1	-	-	-
-	15183	Floor Centre	-	-	1	-	-
-	14855	Floor Centre	-	-	-	1	-
-	15371	Floor Centre	-	-	-	-	1
15	15198	Floor Outer LH	1	1	-	-	-
-	15182	Floor Outer LH	-	-	1	-	-
-	14854	Floor Outer LH	-	-	-	1	-
-	15370	Floor Outer LH	-	-	-	-	1
16	15460-LH	Combing Rail (Left hand)	1	-	-	-	-
-	15443-LH	Combing Rail (Left hand)	-	1	-	-	-
-	15433-LH	Combing Rail (Left hand)	-	-	1	-	-
-	15448-LH	Combing Rail (Left hand)	-	-	-	1	-
-	15442-LH	Combing Rail (Left hand)	-	-	-	-	1
17	15458	Left Rear Upright	1	-	-	-	-
-	15425	Left Rear Upright	-	1	1	1	-
-	15441	Left Rear Upright	-	-	-	-	1
18	15456	Front Left Upright	1	-	-	-	-
-	15424	Front Left Upright	-	1	1	1	-
-	15440	Front Left Upright	-	-	-	-	1
19	15435	Ladder	1	1	1	1	-
-	15378	Ladder	-	-	-	-	1
20	14842	Left side panel	1	1	1	1	1
21	15469	Gearbox cover	1	1	1	1	1
22	14835	Forward upper left panel	1	1	1	1	-
-	15357	Forward upper left panel	-	-	-	-	1
23	14063- RH	Gate Latch (Right hand)	1	1	1	1	1
24	14064	Gate Latch bush	2	2	2	2	2
25	14063-LH	Gate Latch (Left hand)	1	1	1	1	1

Front Panels – Pre- June 2025 – Bolt-on Combing Rail



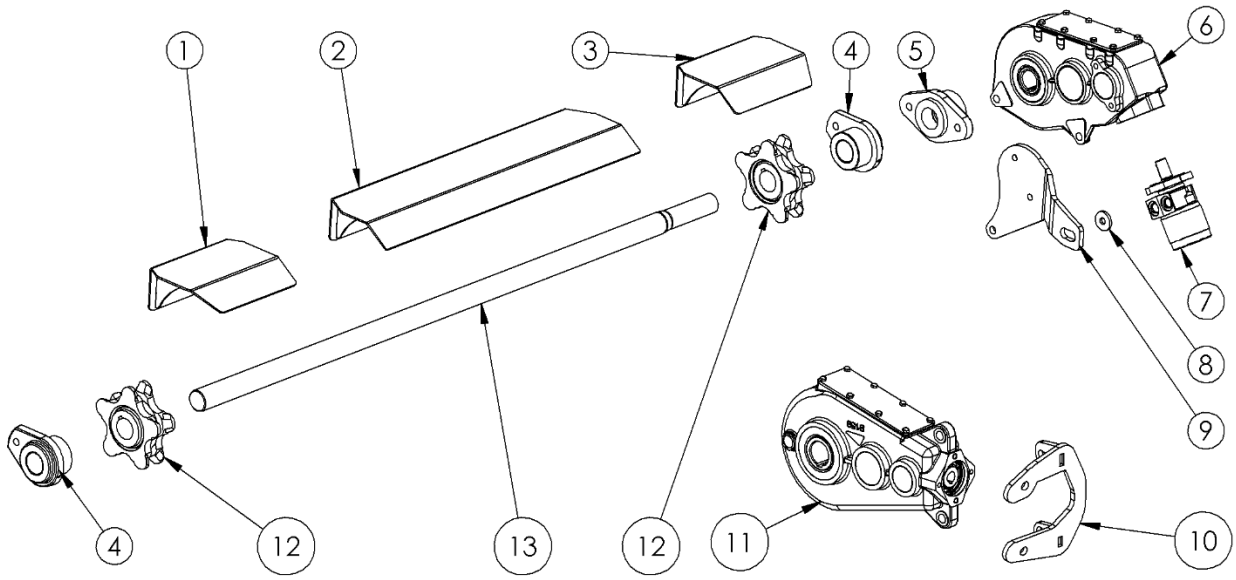
- This information relates to machines with bolt-on combing rails (items 9 & 16). If the machine has combing rails welded to the uprights, refer to previous view/table.

- If the machine has bolted on Upright Extension brackets, please contact Giltrap Engineering for Part Number information.

Item	Part Number	Description	Qty GM9	Qty GM11	Qty GM13	Qty GM16
1	14739	Front lower panel	1	1	1	1
2	14843	Front upper panel	1	1	1	1
3	14925	Gap filler	1	1	1	1
4	14894	Forward lower right panel	1	1	1	1
5	14905	Forward right upper panel	1	1	1	1
6	SCOIL1.2/SSS	Side panel – length as req.	2	-	-	-
-	SCOIL1.2/SSS	Side panel – length as req.	-	2	-	-
-	SCOIL1.2/SSS	Side panel – length as req.	-	-	2	-
-	SCOIL1.2/SSS	Side panel – length as req.	-	-	-	2
7	15327	Front Right Upright	1	-	-	-
-	14837	Front Right Upright	-	1	1	1
8	15320	Side Upright	4	-	-	-
-	14852	Side Upright	-	4	6	8

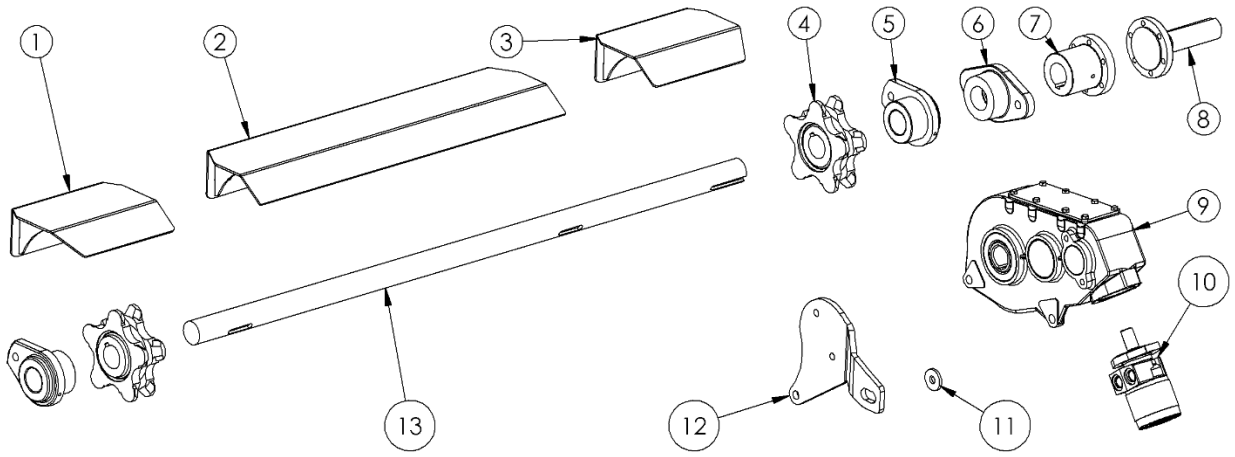
Item	Part Number	Description	Qty GM9	Qty GM11	Qty GM13	Qty GM16
9	15321-RH	Combing Rail (Right hand)	1	-	-	-
-	14895-RH	Combing Rail (Right hand)	-	1	-	-
-	15179-RH	Combing Rail (Right hand)	-	-	1	-
-	14838-RH	Combing Rail (Right hand)	-	-	-	1
10	15319	Right Rear Upright	1	-	-	-
-	14738	Right Rear Upright	-	1	1	1
11	699-1002	Gate stay	1	1	1	1
12	14850	Gate brace beam	1	1	1	1
13	15198	Floor Outer RH	1	1	-	-
-	15182	Floor Outer RH	-	-	1	-
-	14854	Floor Outer RH	-	-	-	1
14	15199	Floor Centre	1	1	-	-
-	15183	Floor Centre	-	-	1	-
-	14855	Floor Centre	-	-	-	1
15	15198	Floor Outer LH	1	1	-	-
-	15182	Floor Outer LH	-	-	1	-
-	14854	Floor Outer LH	-	-	-	1
16	15321-LH	Combing Rail (Left hand)	1	-	-	-
-	14895-LH	Combing Rail (Left hand)	-	1	-	-
-	15179-LH	Combing Rail (Left hand)	-	-	1	-
-	14838-LH	Combing Rail (Left hand)	-	-	-	1
17	15329	Left Rear Upright	1	-	-	-
-	14738-LH	Left Rear Upright	-	1	1	1
18	15318	Front Left Upright	1	-	-	-
-	14837-LH	Front Left Upright	-	1	1	1
19	14874	Ladder	1	1	1	1
20	14842	Left side panel	1	1	1	1
21	14853	Gearbox cover	1	1	1	1
22	14835	Forward upper left panel	1	1	1	1
23	14063- RH	Gate Latch (Right hand)	1	1	1	1
24	14064	Gate Latch bush	2	2	2	2
25	14063-LH	Gate Latch (Left hand)	1	1	1	1

Floor Chain Drive Assembly – June 2025 on



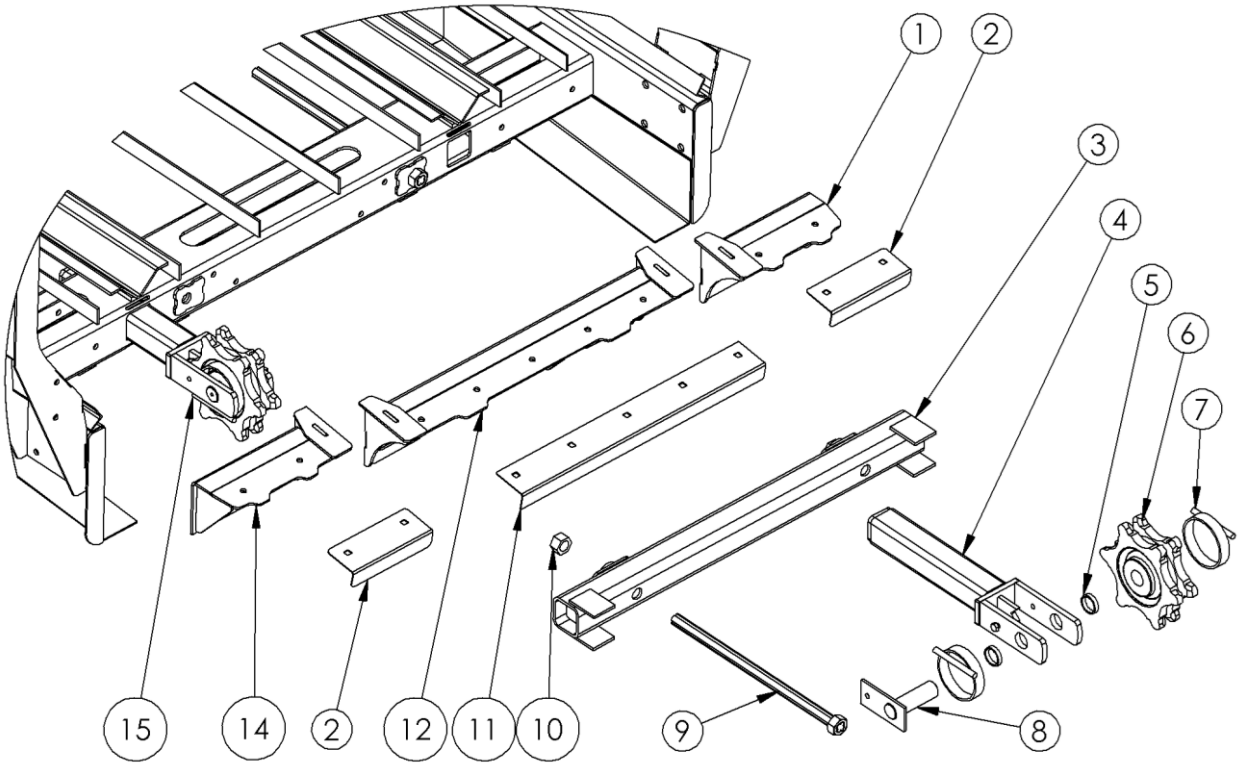
Item	Part Number	Description	Qty GM9	Qty GM11,13	Qty GM16	Qty GM21
1	14960-RH	Outer Guard (Right hand)	1	1	1	1
2	14834	Centre Guard	1	1	1	1
3	14960-LH	Outer Guard (Left hand)	1	1	1	1
4	615-2023	Deadeye bearing 45mm	2	-	-	-
-	615-2044	Deadeye bearing 50mm	-	2	2	-
-	615-2055	Deadeye bearing 55mm	-	-	-	2
5	615-1118	Deadeye bearing Two leg 45mm	1	-	-	-
-	615-1127	Deadeye bearing Two leg 50mm	-	1	1	-
-	615-1130	Deadeye bearing Two leg 55mm	-	-	-	1
6	GBRT300-45-PTG	Gearbox Berma RT300-45 Painted Grey	1	1	1	-
7	HYM130-PTG	Hydraulic Motor TEO130cc Painted Grey	1	1	-	-
-	HYM195-PT	Hydraulic Motor TEO195cc Painted	-	-	1	1
8	14659	Retainer washer	1	1	1	-
9	14851	Gearbox torque arm	1	1	1	-
10	14229	Mount brace	-	-	-	1
11	GBRT400-55-PT	Gearbox Berma RT400-55 Painted	-	-	-	1
12	14948	5T 45mm Drive Sprocket	2	-	-	-
-	14962	5T 50mm Drive Sprocket	-	2	2	-
-	14118	5T 55mm Drive Sprocket	-	-	-	2
13	15478	Drive shaft	1	-	-	-
-	15476	Drive shaft	-	1	1	-
-	15369	Drive shaft	-	-	-	1

Floor Chain Drive Assembly – Pre-June 2025



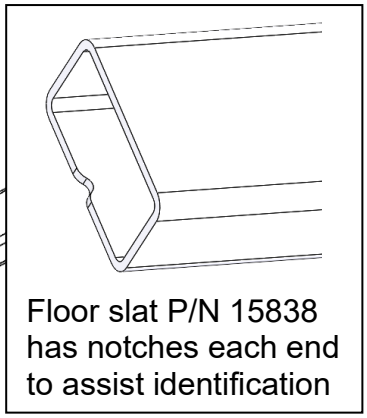
Item	Part Number	Description	Qty GM9	Qty GM11,13,16
1	14960-RH	Outer Guard (Right hand)	1	1
2	14834	Centre Guard	1	1
3	14960-LH	Outer Guard (Left hand)	1	1
4	14948	5T 45mm Drive Sprocket	2	-
-	14962	5T 50mm Drive Sprocket	-	2
5	615-2023	Deadeye bearing 45mm	2	-
-	615-2044	Deadeye bearing 50mm	-	2
6	615-1118	Deadeye bearing Two leg 45mm	1	-
-	615-1127	Deadeye bearing Two leg 50mm	-	1
7	14623	Gearbox coupling 45mm female	1	-
-	135-4128	Gearbox coupling 50mm female	-	1
8	135-4142	Gearbox coupling male	1	1
9	GBRT300-45-PTG	Gearbox Berma RT300-45 Painted Grey	1	1
10	HYM130-PTG	Hydraulic Motor TEO130cc Painted Grey	1	1
11	14659	Retainer washer	1	1
12	14851	Gearbox torque arm	1	1
13	14891	Drive shaft 45mm	1	-
-	14844	Drive shaft 50mm	-	1

Floor Chain Idler Assembly

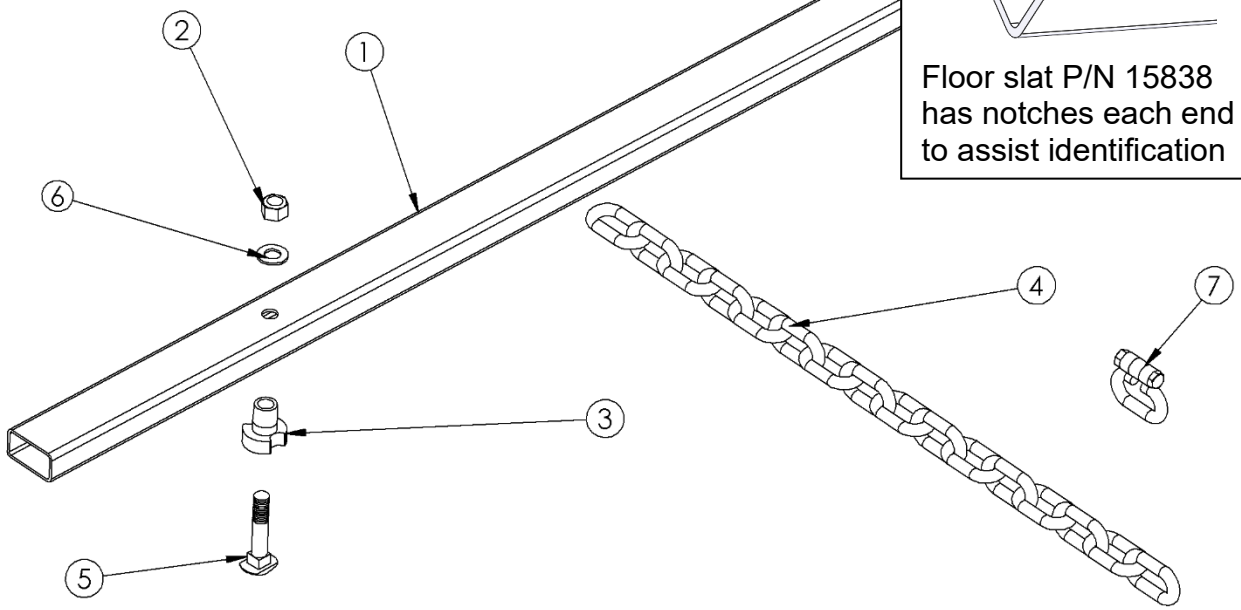


Item	Part Number	Description	Qty GM9	Qty GM11-21
1	14847-RH	Floor Retainer Outer (Right hand)	1	1
2	14848	Outer end cap	2	2
3	14814	Puller	1	1
4	14946	Adjuster	2	-
-	14034	Adjuster	-	2
5	14036	Spacer	2	2
6	210-0012	6T Idler	2	-
-	12182	6T Idler – Large chain	-	2
7	597-1036	Chain ring	4	-
-	14955	Large chain ring	-	4
8	597-1029-1	6Th Idler Axle assy	2	2
9	14042	Tensioner rod	2	2
10	NN24	Nylock nut M24	2	2
11	14849	Centre end cap	1	1
12	14846	Floor retainer centre	1	1
14	14847-LH	Floor Retainer Outer (Left hand)	1	1
15	14947	Sprocket Adjuster assembly (items 4-8)	2	-
-	14035	Sprocket Adjuster assembly, Large chain (items 4-8)	-	2

Floor Bar setup



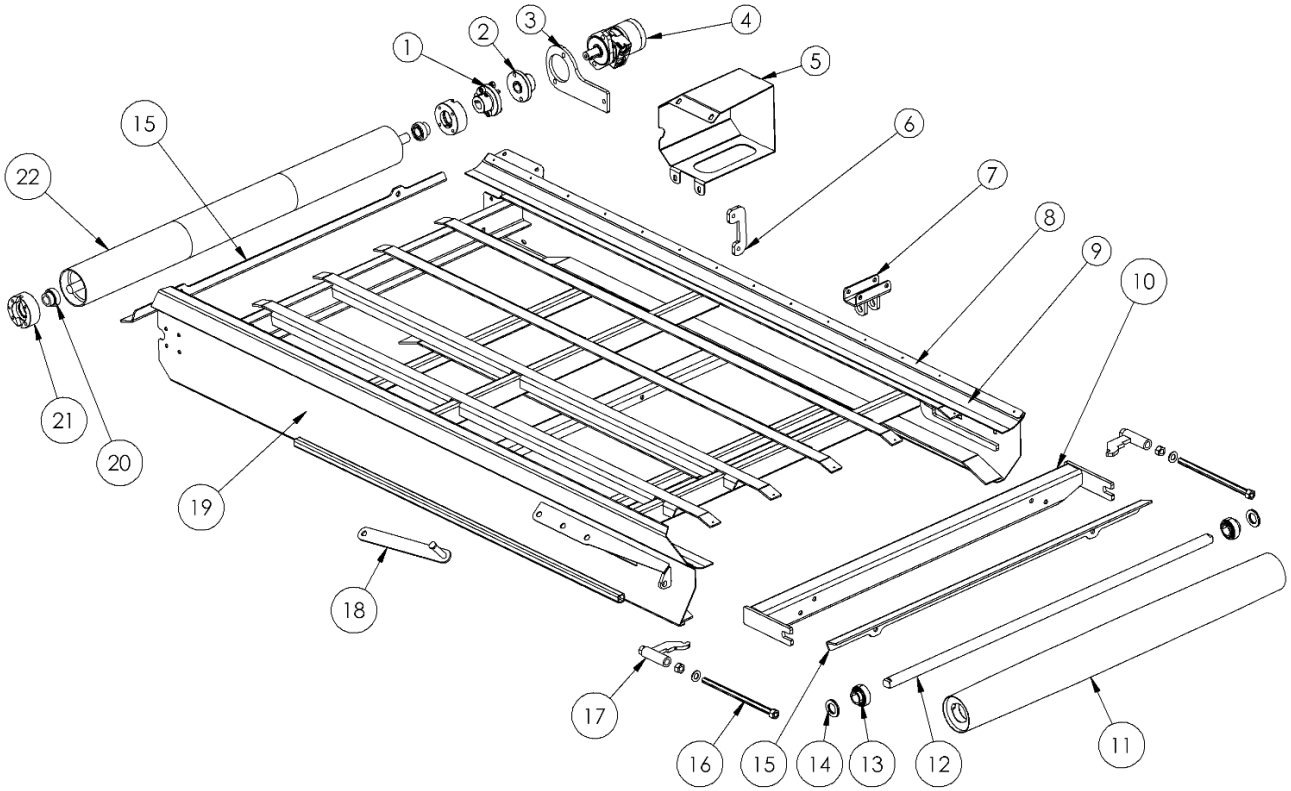
Floor slat P/N 15838 has notches each end to assist identification



NOTE: ensure correct floor slat for Serial Number is specified when ordering parts.
Floor slat P/N 15838 Must Not be fitted to earlier machines.

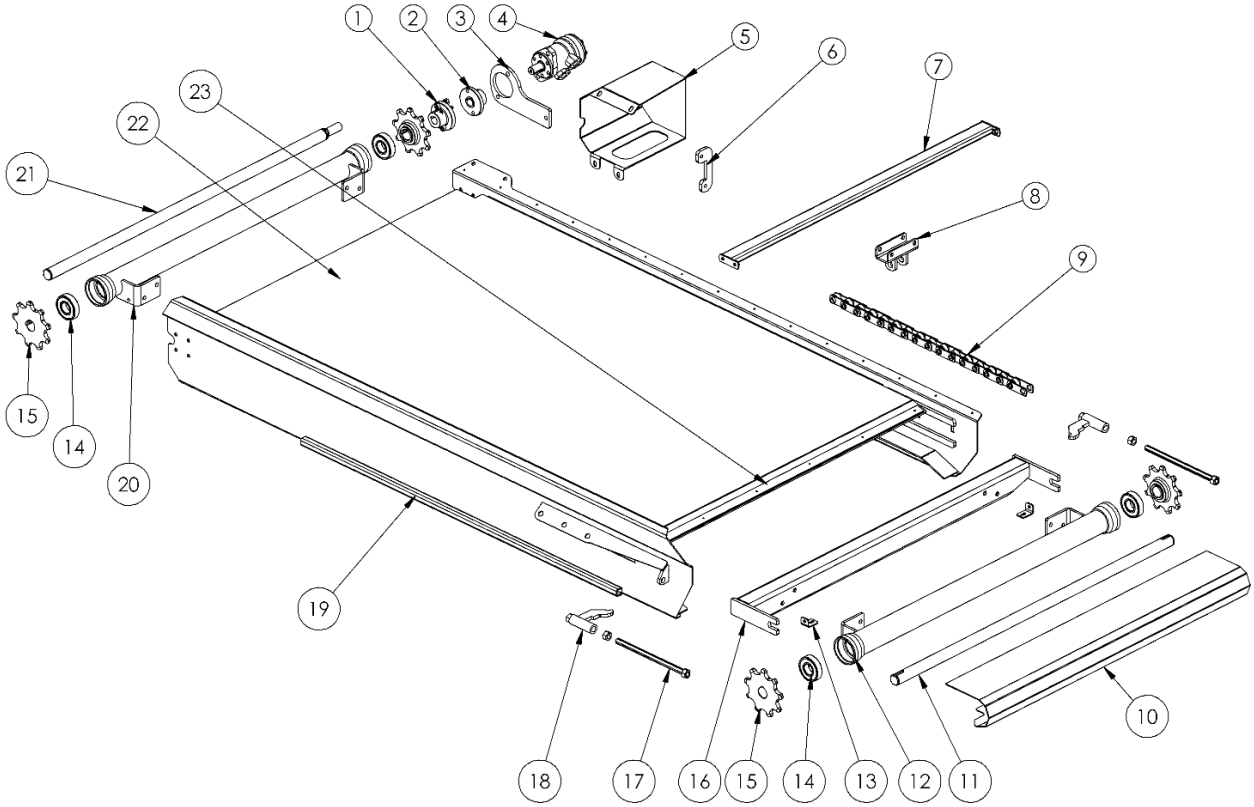
Item	Part Number	Description	Qty GM9	Qty GM11	Qty GM13	Qty GM16	Qty GM21
1	14949	Floor Slat bolt-on – GMAX 10mm chain	12	-	-	-	-
-	14629 – used up to S/N: AONL19488	Floor Slat bolt-on – GMAX 13mm chain	-	11	14	17	20
-	15838 – used from S/N: AONL19489	Floor Slat bolt-on – GMAX 13mm chain. Has notches in ends for identification	-	11	14	17	20
2	N12	Nut M12	24	-	-	-	-
-	NN16	Nylock nut M16	-	22	28	34	40
3	605-3001-1	Floor slat bush	24	-	-	-	-
-	14628	Floor bar spacer M16	-	22	28	34	40
4	CH10HTLL	Chain 10mm High Tensile	As req	-	-	-	-
-	CH42520	13mm Chain	-	2x 6.92m	2x 8.91m	2x 10.9m	2x 13.4m
5	BCH12X60	Bolt, Coach M12x60 Galv	24	-	-	-	-
-	BCH16x85	Coach bolt 16 x 85 - GMAX	-	22	28	34	40
6	WASG12	Spring washer M12	24	-	-	-	-
-	WA16	Flat washer M16	-	22	28	34	40
7	230-1007	10mm chain joiner link	2	-	-	-	-
-	230-1307	13mm chain joiner link	-	2	2	2	2

Belt Cross Conveyor



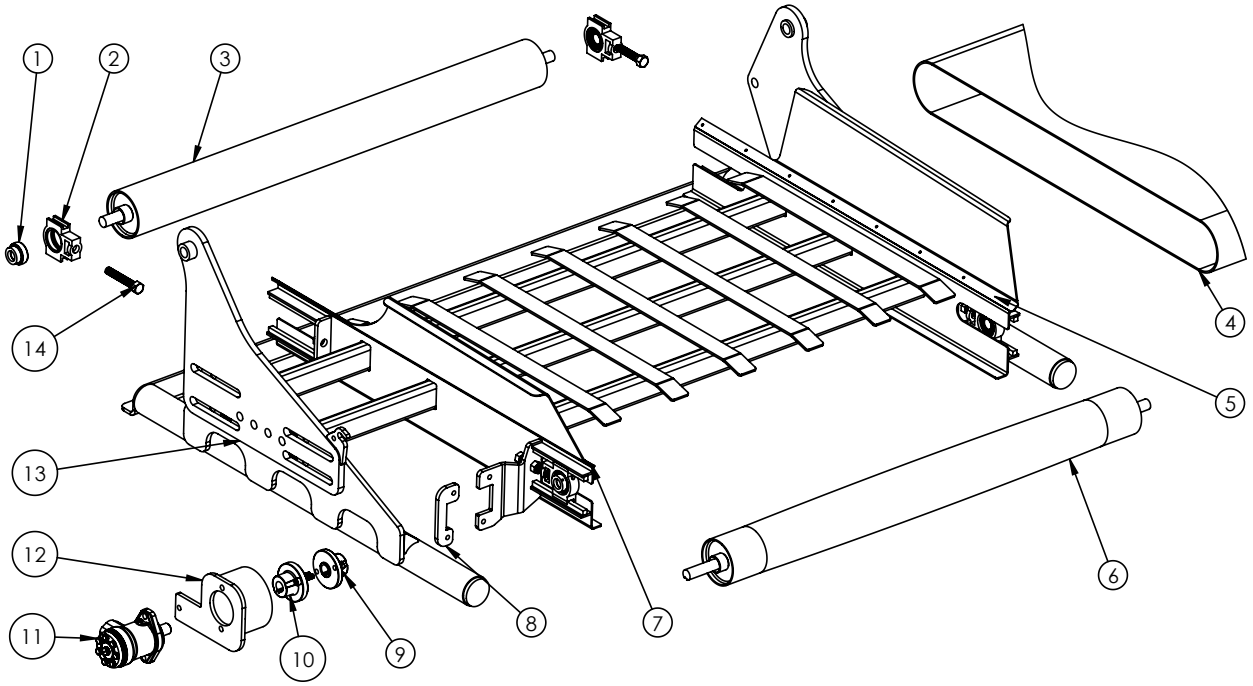
Item	Part Number	Description	Quantity
-	13920	Cross Conveyor Bed 1200 Incl Belt – GMAX	-
-	501-9120	CC Belt w Slats 4.500x1200	1
1	554-1136	Motor Coupling - Male	1
2	554-1143	Motor Coupling - Female	1
3	13947	P mount	1
4	HYM65-PT	Hydraulic Motor 65cc Painted Giltrap Red	1
5	13946	Guard	1
6	14549	Motor Retainer	1
7	13928	Stay Mount	1
8	13925	Retainer Strip	2
9	13926	Belt Edge cover	2
10	13922	Tensioner	1
11	14343	Idler Roller only, 1200mm (bearings NOT incl.)	1
-	14344	Idler Roller Assembly (includes #11, 12, 13)	1
12	14297	Idler shaft	1
13	BRGYAR206	Idler Roller Bearing Insert 30mm	2
14	15412	Washer	4
15	13927	Scraper	2
16	13924	Adjuster	2
17	13923	Puller	2
18	14928	CC locator	1
19	13921	Frame	1
20	BRGYET205	BRG Insert m/coil 25mm	2
21	HSG-CCRDS	Self-Aligning Bearing Housing	2
22	501-9514-1200	CC-RF Roller Drive 1200mm	1
-	CCRAD-RF1200	Drive Roller Assembly (Includes #20, 21 & 22)	1

Chain Cross Conveyor



Item	Part Number	Description	Quantity
-	13944	Chain Bed Assembly 1200 - GMAX	-
1	554-1136	Motor Coupling - Male	1
2	554-1143	Motor Coupling - Female	1
3	13947	P mount	1
4	HYM80-PT	Hydraulic Motor 80cc Brevini, Painted	1
5	13946	Guard	1
6	14549	Motor Retainer	1
7	501-8022-1	Slat / Bar for RF Chain Bed 1200 mm	As req.
-	501-8022	Chain & Slat set – RF Chain Bed 1200 mm	1
8	13928	Stay Mount	1
9	CH6000-2	Chain, 2” Pitch, 6000lb Hollow Pin, length to suit	2
10	13938	Rear Cover	1
11	10139	Idler shaft	1
12	15335	Welded housing	1
-	13937	Chain Idler End assembly (includes #11,12,14,15)	1
13	13939	Mount tab	2
14	BRG6307	Bearing	4
15	211-0007-1	Sprocket	4
16	13922	Tensioner	1
17	13924	Adjuster	2
18	13923	Puller	2
19	13921	Frame	1
20	15335	Welded housing	1
-	13935	Chain Drive End assembly (includes #14,15,20,21)	1
21	10138	Drive shaft	1
22	13940	Plastic floor	1
23	10145	Floor retainer	1

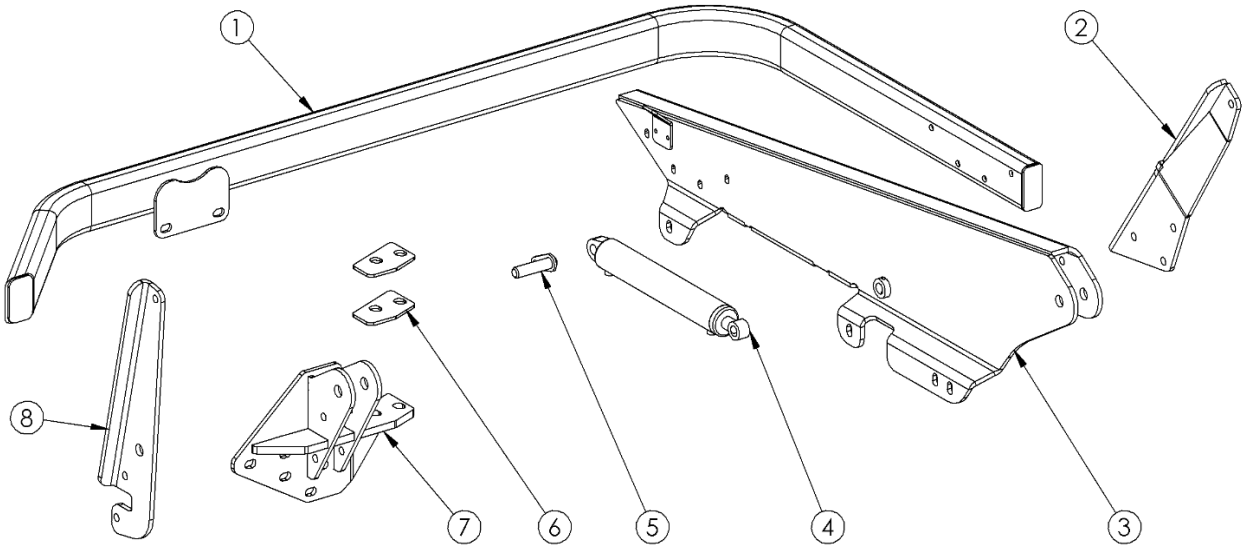
Heavy Duty Cross Conveyor Extension – Conveyor



Note: 1m version shown

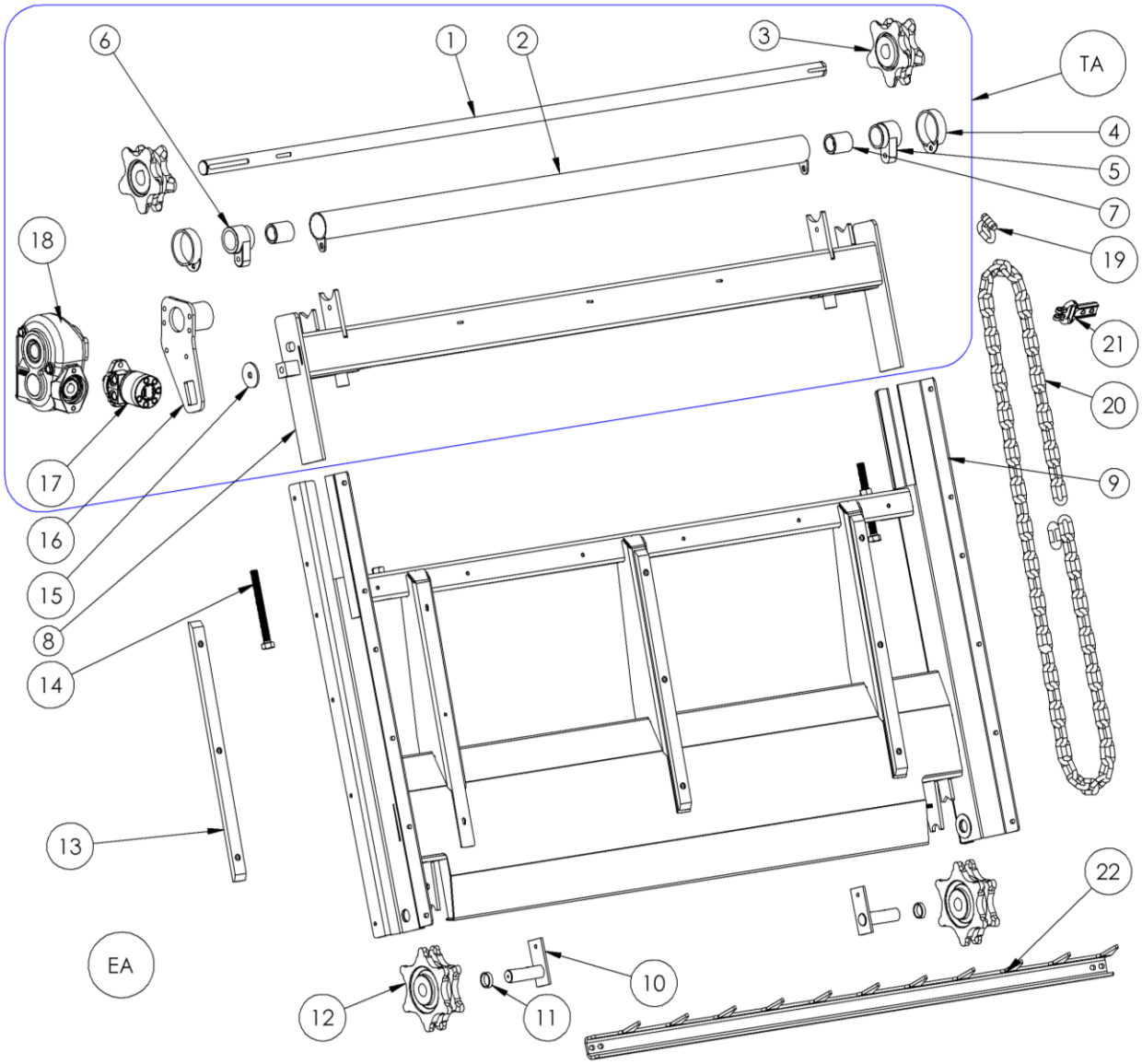
Item	Part Number	Description	Quantity 1m Unit	Quantity 2m Unit
1	BRGYET205	Bearing Insert with collar, 25mm	4	4
2	HSGTU505	Bearing housing, Take Up, 25mm	4	4
3	CCRAI-HD1200	Complete Idler Roller assy, HD 1200mm	1	1
4	501-9102	CC Belt w Slats 2250x1200	1	-
-	501-9109	CC Belt w Slats 4250x1200	-	1
5	13925	Retainer strip	2	2
6	15239	Complete Drive Roller assy, HD 1200mm	1	2
7	501-9521	Rubber Insert strip	2	2
8	14549	Motor Retainer	1	1
9	554-1136	Motor Coupling - Male	1	1
10	554-1143	Motor Coupling - Female	1	1
11	HYM40-PT	Hydraulic Motor Generic 40cc – Painted	1	1
12	590-0177-1	CC motor mount	1	1
13	15193	1200 CCE 1m Bed Weldment	1	-
-	15910	1200 CCE 2m Bed Weldment	-	1
14	596-1001	Adjuster screw	4	4

Heavy Duty Cross Conveyor Extension – Mounts



Item	Part Number	Description	Quantity
1	15211	Bumper modified	1
2	15210	Front Upstand	1
3	15209	Front mount	1
4	RAM2x1x12	Ram 2” bore x 12” stroke	1
5	15235	Pin	1
6	15506	Mount spacer (used as necessary)	As req
7	15213	Rear mount	1
8	15214	Rear Upstand	1

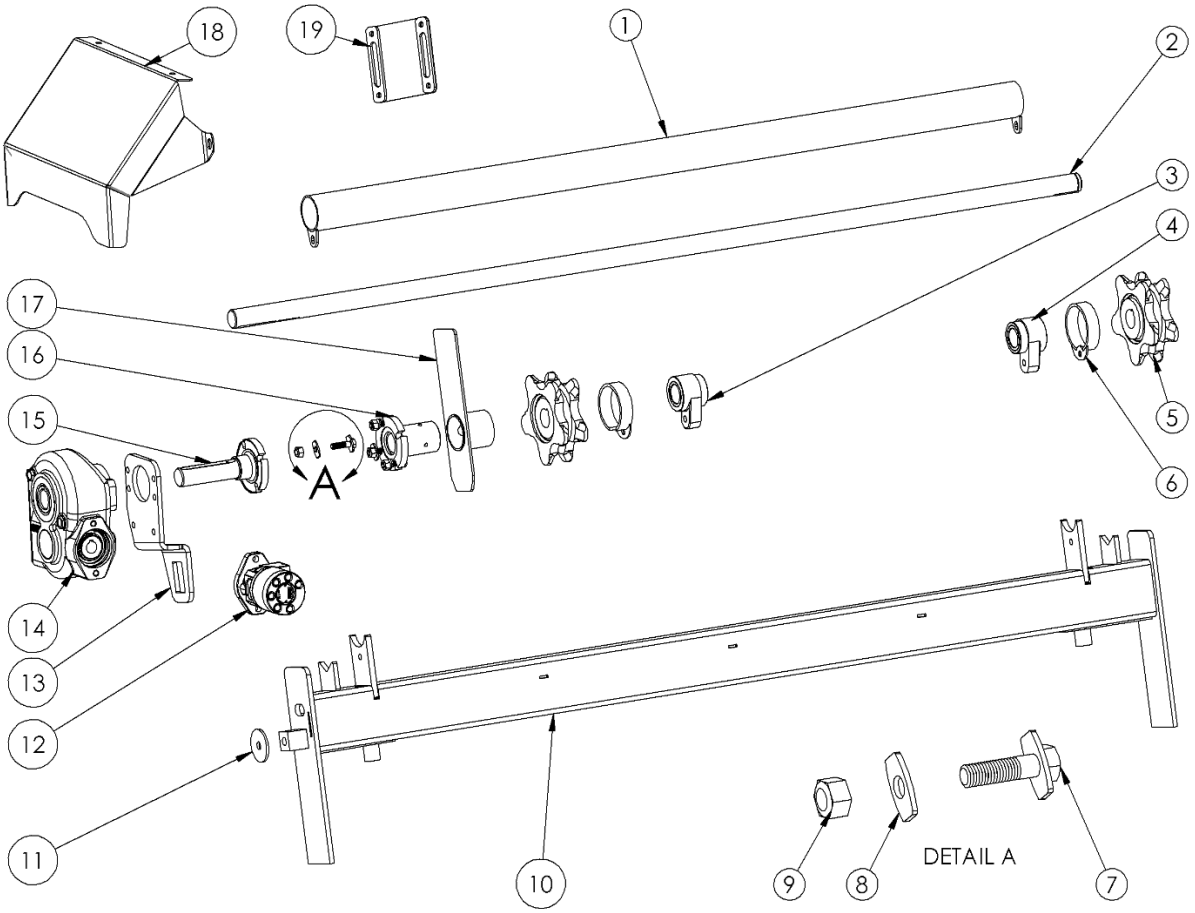
Elevator – June 2025 on



- See table next page

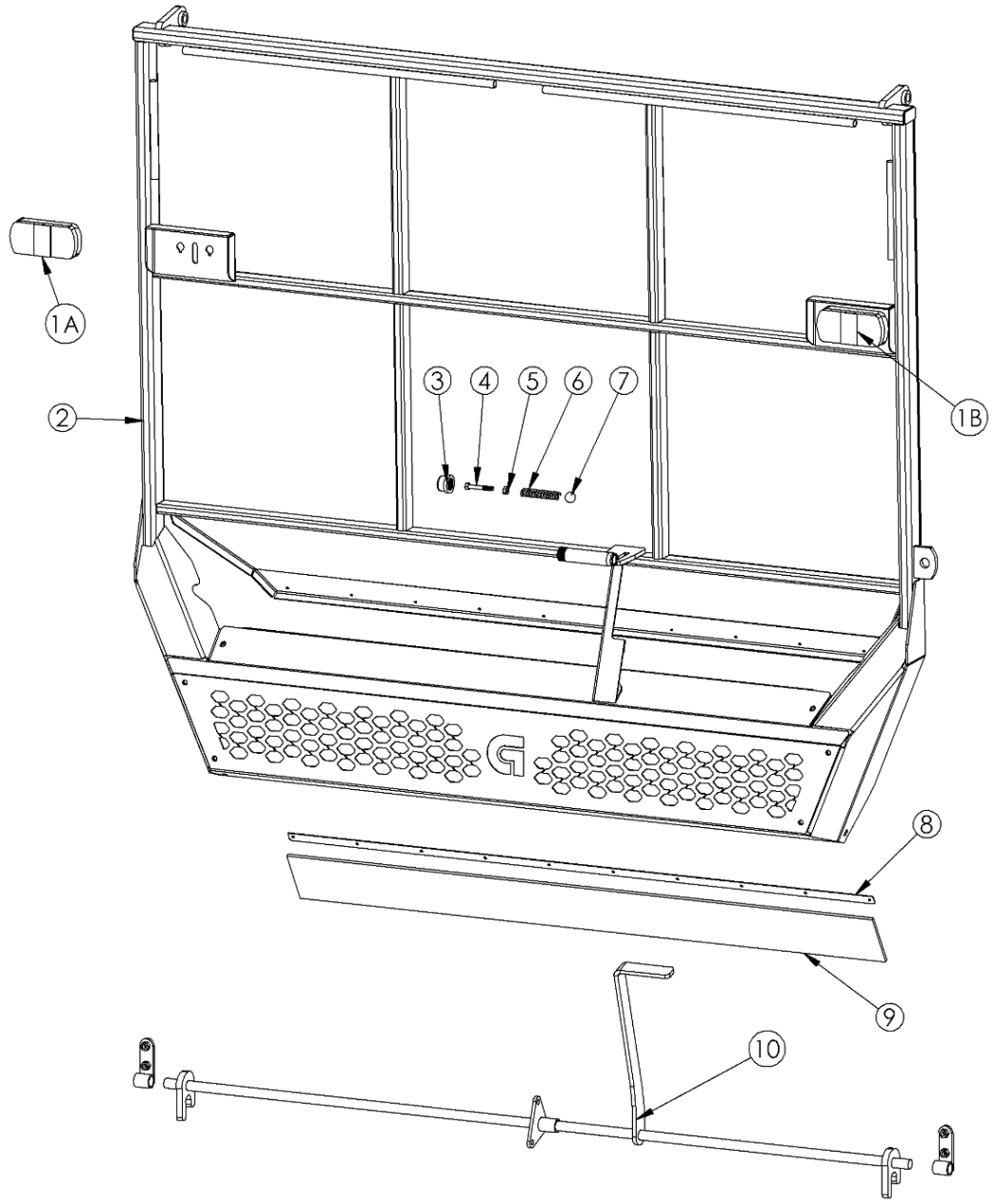
Item	Part Number	Description	Qty GM9	Qty GM11	Qty GM13	Qty GM16	Qty GM21
EA	15463	Elevator Assembly	1	-	-	-	-
-	15462	Elevator Assembly	-	1	1	1	-
-	15464	Elevator Assembly	-	-	-	-	1
TA	15465	Elevator Top Assembly	1	-	-	-	-
-	15466	Elevator Top Assembly	-	1	1	1	-
-	15466-V	Elevator Top Assembly	-	-	-	-	1
1	15467	Elevator shaft	1	1	1	1	1
2	14826	Guard	1	1	1	1	1
3	210-0004	Drive Sprocket 5T	2	-	-	-	-
	- add 14956	For G-MAX9 only	2	-	-	-	-
-	12180	Drive Sprocket 5T	-	2	2	2	2
4	14957	Labyrinth	2	-	-	-	-
-	14825	Labyrinth	-	2	2	2	2
5	615-1999-LH	Cast dead eye	1	1	1	1	-
-	11385	Bushed Bearing	-	-	-	-	1
6	615-1999-RH	Cast dead eye	1	1	1	1	-
-	11386	Bushed Bearing	-	-	-	-	1
7	11384	Bush only	-	-	-	-	2
8	14823	Top frame	1	1	1	1	1
9	14816	Lower frame	1	1	1	1	-
-	15355	Lower frame	-	-	-	-	1
10	597-1029-1	Idler axle assy	2	2	2	2	2
11	15461	Pipe spacer	2	2	2	2	2
12	210-0012	Idler 6 tooth	2	-	-	-	-
-	12182	Idler 6 tooth – Large chain	-	2	2	2	2
13	14831	Plastic pad	2	2	2	2	-
-	15356	Plastic pad	-	-	-	-	2
14	14824	Adjuster	2	2	2	2	2
15	14819	Disc	1	1	1	1	1
16	15468	Gearbox Mount	1	1	1	1	1
17	HYM80-PARKER-PT	Hydraulic motor 80cc	1	1	1	1	1
18	GBRT160-PT	Gearbox RT160 Painted	1	1	1	1	1
19	230-1007	10mm chain joiner link	2	-	-	-	-
-	230-1307	13mm chain joiner link	-	2	2	2	2
20	232-0021	10mm Elevator Chain assy	2	-	-	-	-
-	232-0069	13mm Chain & tag assy	-	2	2	2	-
-	232-0070	13mm Chain & tag assy 21	-	-	-	-	2
21	595-3010	Forged Elevator Bar Tag & Bolt Assy	10	-	-	-	-
22	501-0071	Elevator Spiked bar - RH	5	5	5	5	6
-	501-0072	Elevator Spiked bar - LH	5	5	5	5	5

Elevator – Top Assembly – pre-June 2025



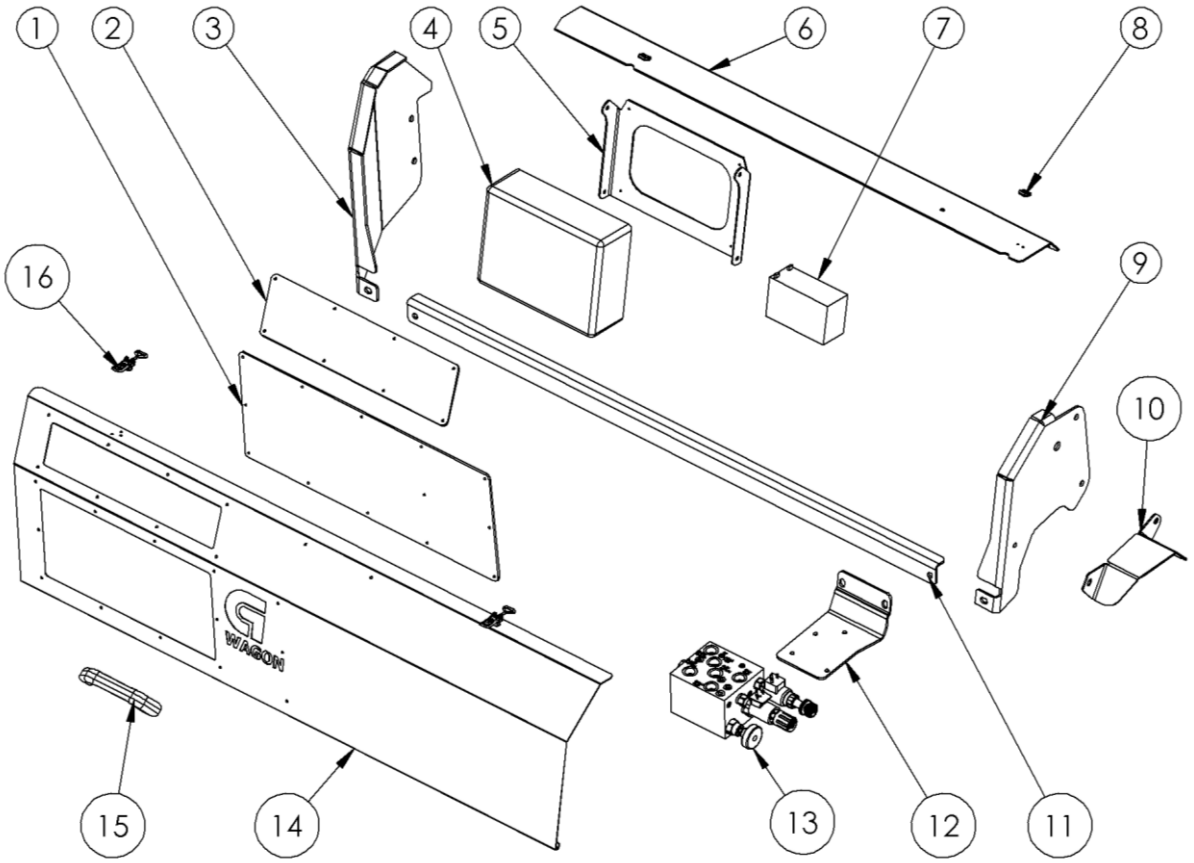
Item	Part Number	Description	Qty GM9	Qty GM11-GM16
-	15331	Elevator Top Assembly	1	-
-	15235	Elevator Top Assembly	-	1
1	14826	Guard	1	1
2	14818	Elevator Shaft	1	1
3	615-1999-RH	Cast dead eye	1	1
4	615-1999-LH	Cast dead eye	1	1
5	210-0004	Drive Sprocket 5T	2	-
-	- add 14956	For G-MAX9 only	2	-
-	12180	Drive Sprocket 5T	-	2
6	14957	Labyrinth	2	-
-	14825	Labyrinth	-	2
7	B12x45	Bolt	4	4
8	14830	Coupling lock washer	8	8
9	NN12	Nylock nut M12	4	4
10	14823	Top frame	1	1
11	14819	Disc	1	1
12	HYM80-PARKER-PT	Hydraulic motor 80cc	1	1
13	14829	Gearbox Mount	1	1
14	GBRT160-PT	Gearbox RT160 Painted	1	1
15	14073	Male coupling	1	1
16	14072	Female coupling	1	1
17	14827	Coupling cover	1	1
18	14853	Gearbox cover	1	1
19	14845	Elevator Gapfill cover	1	1

Rear Gate



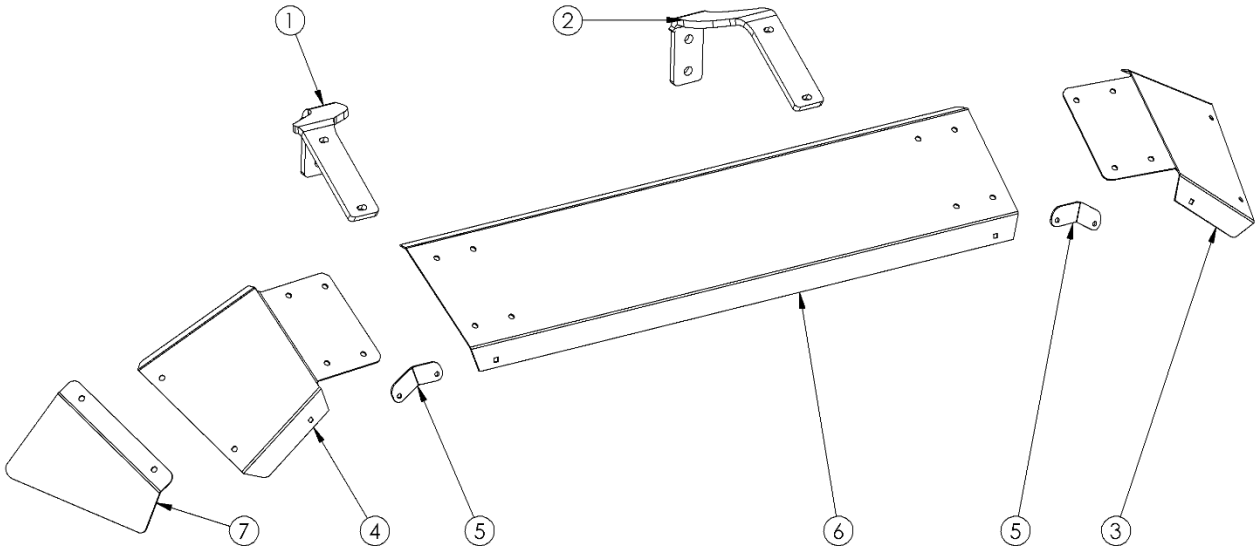
Item	Part Number	Description	Quantity
1A	LightLed-LH	LED Tail light Left hand	1
1B	LightLed-RH	LED Tail light Right hand	1
2	14861	Rear Gate complete G-MAX 9-16	1
		Rear Gate complete G-MAX 21	1
3	PFCAP25G	Cap, galvanised	1
4	B10x65	Bolt, M10x65	1
5	NN10	Nut, Nyloc M10	1
6	SGC100x24	Spring, Compression 100 x 22OD x 5	1
7	BRGUC1”	Ball Bearing, 1”	1
8	14865	Retainer	1
9	14866	Seal Strip	1
10	14862	Latch	1

Control Enclosure Components



Item	Part Number	Description	Quantity
1	14873-1	Filler 1	1
2	14873-2	Filler 2	1
3	14869	Forward cover mount	1
4	-	Electronic Control Enclosure (optional)	As req.
5	14096	Enclosure mount	1
6	14870	Top folding	1
7	TCS-Battery2	Battery (optional)	As req.
8	COMAC-5704	Latch striker plate	2
9	14867	Rear cover mount	1
10	15065	Hyd cover	1
11	14871	Lower side mount	1
12	14868	Hydraulic block mount	1
13	HYHCV-4045-2	Hydraulic valve block – GMAX (manual)	As req.
-	HYHCV-4045A	Hydraulic valve block – (Electronic) GMAX	As req.
14	14872	Stainless steel cover	1
15	COMAC-3056	Grab handle	1
16	COMAC-5702	Hold down latch	2

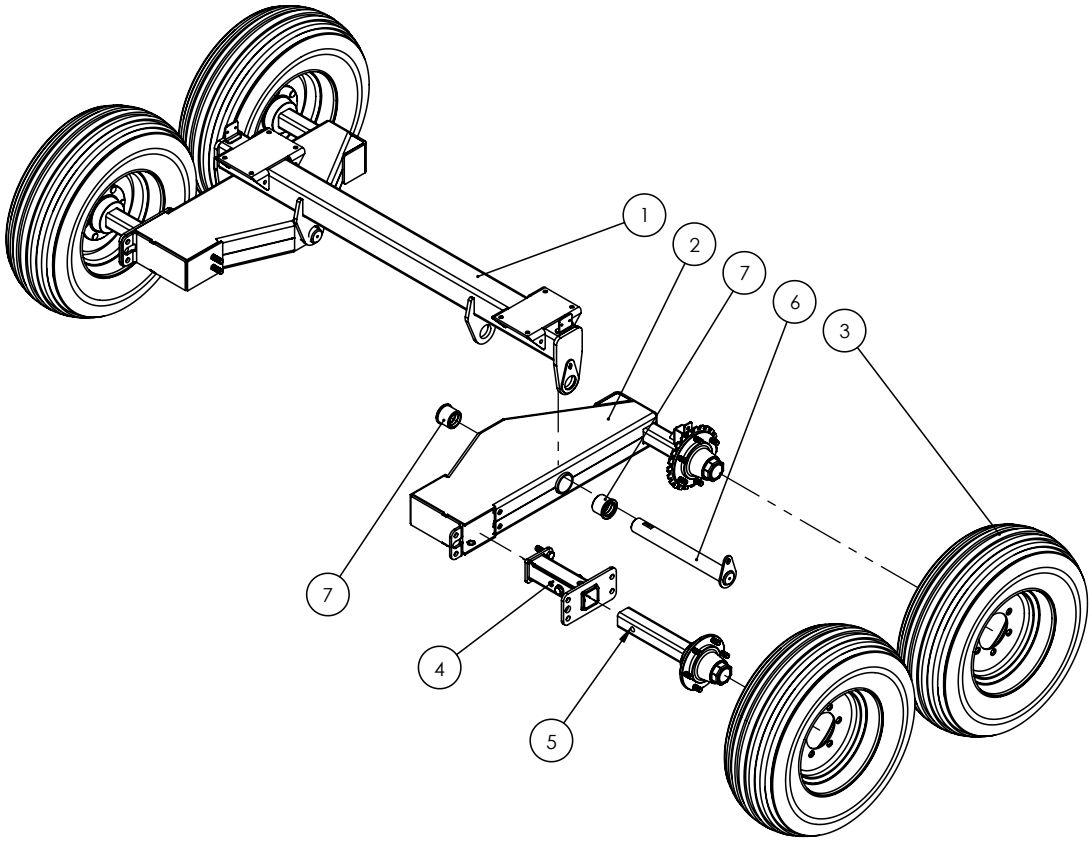
Mudguards



Item	Part Number	Description	Qty GMAX9 Tyre: 11.5/80-15.3	Qty GMAX11 Tyre: 400/60-15.5	Qty GMAX13 Tyre: 400/60-15.5	Qty GMAX13 Tyre: 400/55-22.5	Qty GMAX16 Tyre: 400/55-22.5	Qty GMAX16 Tyre: 500/60-22.5	Qty GMAX21 Tyre: 500/60-22.5
1	14899-LH	Brace Left hand	2	2	2	-	-	-	-
-	15203-LH	Brace Left hand	-	-	-	2	-	-	-
-	14875-LH	Brace Left hand	-	-	-	-	2	-	-
-	15075-LH	Brace Left hand	-	-	-	-	-	2	2
2	14899-RH	Brace Right hand	2	2	2	-	-	-	-
-	15203-RH	Brace Right hand	-	-	-	2	-	-	-
-	14875-RH	Brace Right hand	-	-	-	-	2	-	-
-	15075-RH	Brace Right hand	-	-	-	-	-	2	2
3	14858-RH	Guard End Right hand	2	2	2	2	2	-	-
-	15074-RH	Guard End Right hand	-	-	-	-	-	2	2
4	14858-LH	Guard End Left hand	2	2	2	2	2	-	-
-	15074-LH	Guard End Left hand	-	-	-	-	-	2	2
5	14859	Edge Joiner	4	4	4	4	4	4	4
6	14900	Guard panel	2	2	2	-	-	-	-
-	14857	Guard panel	-	-	-	2	2	-	-
-	15073	Guard panel	-	-	-	-	-	2	2
7	14968	Mud deflector	1	1	1	1	-	-	-

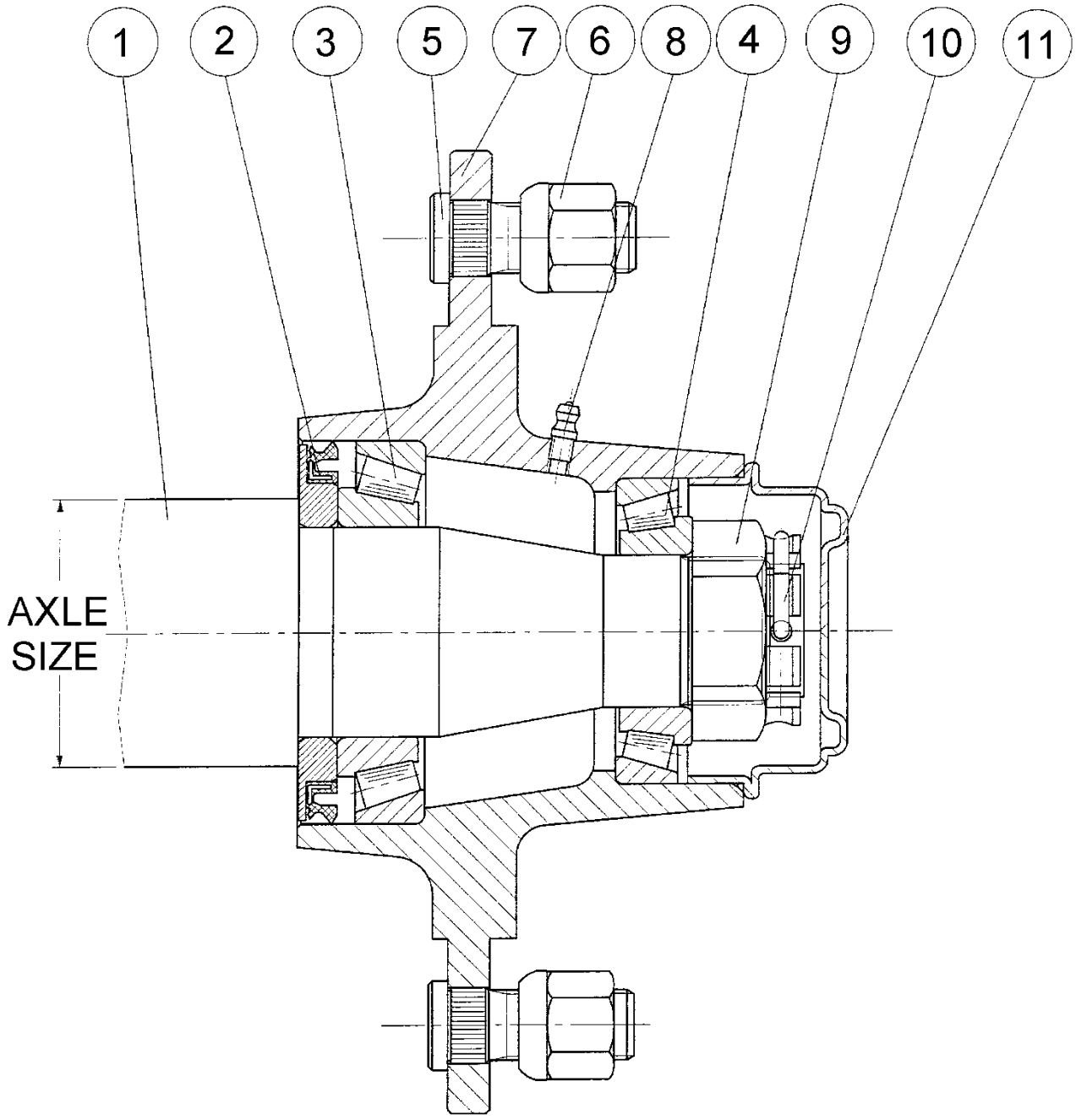
Note: Left side guard shown. Right side guard is mirrored.
Quantities are per complete machine
If your tyre size is not listed, contact the Giltrap Parts Department

Axle Assembly



Item	Part Number	Description	Qty GM9	Qty GM11	Qty GM13	Qty GM16	Qty GM21
1	13524	Cross Beam 1900mm	1	1	1	1	
1	15430	Cross Beam, GMAX21					1
2	15572	975 Hybrid Walking Beam 60mm stub	2				
2	15491	975 Hybrid Walking Beam 70mm Stub		2	2		
2	15641	1250 Hybrid Walking Beam				2	
2	15431	Gull Wing Walking Beam, 1350					2
3							
4	12523	60mm Hub Sleeve	2				
4	13464	70mm Hub Sleeve		2	2		
4	13462	80mm Stub Sleeve				2	
5	HUB2000KG	Complete Stub Axle, ADR 6 stud 60sq	2				
5	HUB3000KG	Complete Stub Axle, ADR 6 stud 70sq		2	2		
5	HUB4250KG	Complete Stub Axle, ADR 8 stud 80sq				2	
6	13109	Axle Shaft - 60mm	2	2	2	2	
6	BEAPHD	Axle Shaft					
7	13110	Axle Bush	4	4	4	4	
7	C28176	Axle Bush	-	-	-	-	4

Hub Assembly – ADR



- See table next page

Item	Giltrap Part #	Description	Quantity			
			60mm	70mm	80mm	90mm
1	HUB2000KG	Complete Stub Axle, ADR 6 stud 60sq	1			
1	HUB3000KG	Complete Stub Axle, ADR 6 stud 70sq		1		
1	HUB4250KG	Complete Stub Axle, ADR 8 stud 80sq			1	
1	HUB5000KG	Complete Stub Axle, ADR 8 stud 90sq				1
2	110-0193	Seal 57x100x10 O/A (80x100x8 nom.)	1			
2	110-0194	Seal 67x120x12 O/A (100x120x10		1		
2	110-0195	Seal 78x130x10 O/A (108x130x8			1	
2	110-0196	Seal 82x140x10 O/A (119x140x8				1
3	BRG30208J2	Taper Roller Bearing, 30208 J2	1			
3	BRG32210J2	Taper Roller Bearing, 32210 J2		1		
3	BRG32212J2	Taper Roller Bearing, 32212 J2			1	
3	BRG32213J2	Taper Roller Bearing, 32213 J2				1
4	BRG30211J2	Taper Roller Bearing, 30211 J2	1			
4	BRG30213J2	Taper Roller Bearing, 30213 J2		1		
4	BRG32215J2	Taper Roller Bearing, 32215 J2			1	
4	BRG32216J2	Taper Roller Bearing, 32216 J2				1
5	110-0945	Wheel Stud, M18x50	6	6	8	
5	110-0950	Wheel Stud, M20x60x1.5				8
6	110-0917	Wheel Nut, M18	6	6	8	
6	110-0919	Wheel Nut, M20x1.5				8
7	-	Hub Only	1	1	1	1
8	GRN8-45	Grease Nipple, M8x1.0 45 deg	1	1	1	1
9	110-1047	Slotted Nut, M39x1.5	1	1		
9	110-1060	Slotted Washer Nut, M48x1.5			1	1
10	-	Retaining Clip (or Split Pin SP5x70)	1			
10	-	Retaining Clip (or Split Pin SP5x70)		1		
10	-	Retaining Clip (or Split Pin SP5x80)			1	
10	-	Retaining Clip (or Split Pin SP5x90)				1
11	110-0799	Grease Cap ADR Pressed Steel -	1			
11	110-0881	Grease Cap ADR Pressed Steel -		1		
11	110-0883	Grease Cap ADR Pressed Steel -			1	
11	110-0884	Grease Cap ADR Pressed Steel -				1

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